

GREENBERG

1982 - Warbler
Collection log

1983 - WEW
Maryland

7530-00-222-3521
FEDERAL SUPPLY SERVICE
(GPO)

1982 log of
the Webber collection

March 1942

As of ~~20~~ 7 March

I had 26 warblers:

7 CSW

4 BBW

6 MYW

4 MW

4 CMW

before leaving for Puerto Rico

I uped the lgt to 13^{13 1/2 hrs} hrs.

1 CSW began to molt ~~2~~ 2 March.

^{sub-}Singing was at a low level,

but involved several individuals.

The week after I got back

22-30 March I uped lgt to

14 hrs (too much!) - since no

birds had begun to molt but

CSW blue.

CSW yellow/black when molting

1st week of April +

Myrtle's Pink + Pink-yellow

were in spring plumage via ween.

~~by A~~

Singing was intense by last few

days of March - in CSW, MW,

BPLW, BTB al. in particular.

March 24 I placed BBW^(R)
B+R(♂) in double Avery
with Hemlock branches +
dewling. I put Blue + pink +
yellow in 25 March to 100
Avery.

Red + Blue-Red also got
COW G+W, BBW next day
but BBW chased COW too
much & COW BBW may not
have been eating.

Blue + Pink + yellow show
little aggression, but Red +
Blue + Red had to be
separated. Red in spencer
right-hand Avery.

March 26

We offered soaked c-vents
to all 4 birds + Blue +
pink + yellow went for
them in a big way!

~~We~~ They meditated then
to get juice.

We put all warblers back
on egg-eggshell mush &
stopped up vionate.

BBW

March 27-28 ♂♂ are singing
a lot + ♀♀ are pulling at
foliage + attracted to white
exclusion. ♂ Blue follows ♀
around (♀ is skittish, high
♂) & some aggression is
noted.

Both ♂ hop high + forth in
front part of cage a lot.

No sign of molt.

All birds are tame around
people + visit food dish readily.

April 5 I took pink, ♂
next green ♀ My L +
B♂ + P♀ COW to bird house.

They are put in large white-metal
cages. The situation is
more disturbed than in good,
all birds are flying around
top of cage a lot.

April 6 9:00 B♂ COW was
sight outside at 730 am by
keepers. All birds but him
approach food dish when I
watched - ♂ My L → ♀ My L a lot.

1 May: ^{Worm-eating Warbler}
^{atfection Park} Non-singing bird low to 10'
 brushstem grub then
 crept up small trunk &
 probed at 6' Maple dead leaf
 & probed 2-3x at newly
 emerging maple leaves. (Longwood
 for short cut.)

3 May: ^{9:30-12:00 just out into}
^{along access Rd} Singing ♂ in dead oak?
 shrub, then 30' in tree

✓ gleaned leaves 7-10 times including
 2 times at promordial chili

Blue tree?

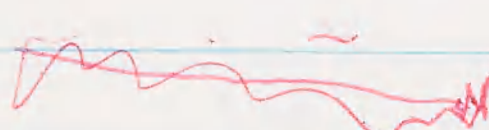
✓ ♂ - Fg Lb 8x petiole glean 1
 chestnut oak x 15-20'

✓ ♂ hg x 1 lb, hng x 2 lb, twig glean ^{oak}
 Fg 1 lb x 5 ^{litmus leaf} 35' - regular
 side trail ^{Black oak}

✓ ♂ Ltsl x 3, 1 bgl x 4 - chestnut oak

✓ ♂ Lbgl x 2 - twig glean

Since



| | |
|------------------|-----|
| WEW | 9 |
| S. Tanager | 4-6 |
| Ovenbird | 15 |
| REV | 6 |
| IB-waxing | 6 |
| CSW | 2 |
| BTB | 4-8 |
| YRW | 20 |
| Titmouse | |
| Bay | |
| C. chickadee | |
| L. warbler | 16 |
| YU | 17 |
| H. Warbler | 1 |
| C. C. Flycatcher | |

5-5-165

✓ in understory 3' - Laurel Dead leaf check

5 May 7.30-1130
A. (11) Rd.

♂ 40' in C. Oak. 22 lb - 17 slen
Thong
1 b. u. slen
1 l.f. prim. red. en

found 4 ♂ weev.

in close proximity - I found

✓ 1st ♂ in 0.4 30' - 16, 1x3

1 kg ~~van~~ hr. glan, 1st prim-ordie glan -

then I saw it dive into dense

Laurel undergrowth. I heard lots of

faint chirping - & saw at least

2 WEN chirping with wings slightly

spread - both very quickly, at times,

so I assume both were ♂♂

✓ I saw both birds probe dead leaves,

✓ Cuckoo hanging on last) - 9 x - all O.K.

(leaves) in Laurel. 2nd ♂ up in oak

then 1b x 7 & got 1 ^{big} green (homop?)

branch 1 x 1. & saw 5-10 more

1b green by both birds in oaks

5 May

another 100m down trail

✓ I saw sing ♂ 40 up in flowering

O.K. (not Chestnut Oak) - 10 x if
 probed at O.K. (leaves).

~

1/2 hr later I returned to

spot of birds' interaction, with

10 minutes, 3 birds were back
 in one chirping.

✓ I saw 3 ^{1st} ^{2nd} ^{3rd} (all ^{O.K.} ^{probed} ^{leaves})

1 dead leaf (O.K.) on dead branch 2' up

had looked on ground briefly

1 black gleam.

10 May 730-

I walked from bottom lot

to top of hill while trail is 2/4 m.

along Ridge top I saw 2-3

WEL on some squabbling

Faring: 20, 40, 40 - cluster 0-5

✓ 1bgl x 12 hgl hgl 1b x 1
flower pile x 12
t + gl x 2
f + gl x 2

✓ change to understory by Pice

in Ash? - D. L. L. + perche

(30)

1bgl

1bgl - mill + 12

petroleum

Mph walking slowly - 1bgl

on Pt-C Between Chick & Blue trail -

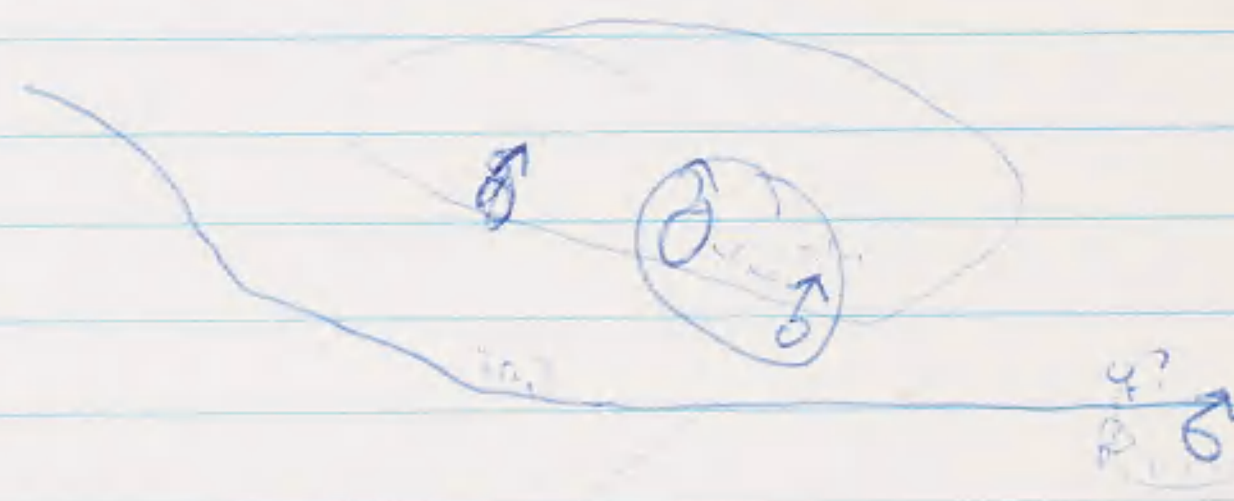
3 WEL singing 20' c. 0.4

✓ 1bgl x 10 (3 hgl/10) bgl/10 x 2
petroleum x 2 1bgl

Horre trail below path lot -

✓ 7 x 1 hgl

May 12



✓ 4-4 5-4 f + gl x 3
2 x 1000 mph

♂+y VIEW in area around
rocky outcrop at beginning of
Blue/white trail -

♂ Sing in oak until quiet &

run in both trail

through undergrowth 0-1' off
ground

✓ ♀ - Arizona towhee 1 2 white leaf probe
catching?

✓ 4 oak 15 glass
chut

2 R. v. in glass

both birds foraging in ^{low}
trees

I went down blue trail

at junction of horse trail & blue-

✓ ♂ singing 30' in oak 1bgl x 4 -
1 centropellie

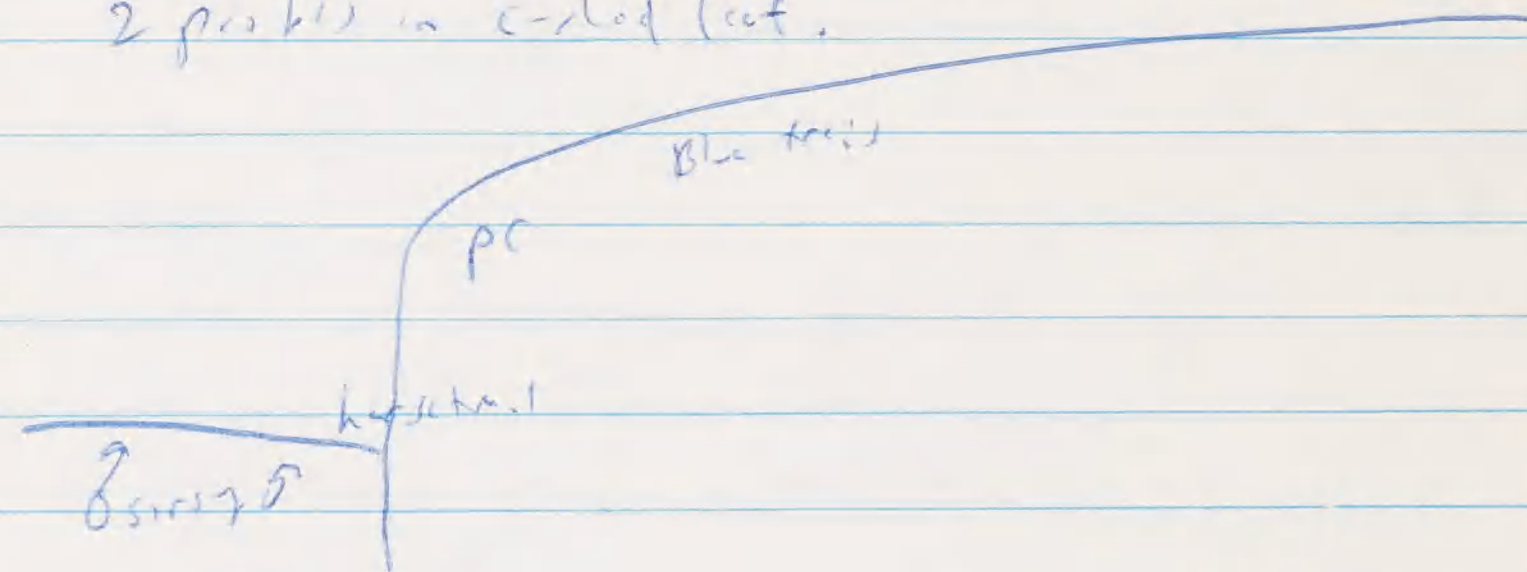
about 200m down trail I saw many but

✓ oak canopy ~40' 1bgl x 4 x hang x 3 -
centropellie

flew into understory & chipped with
mother bird.

at curve in trail I chattered

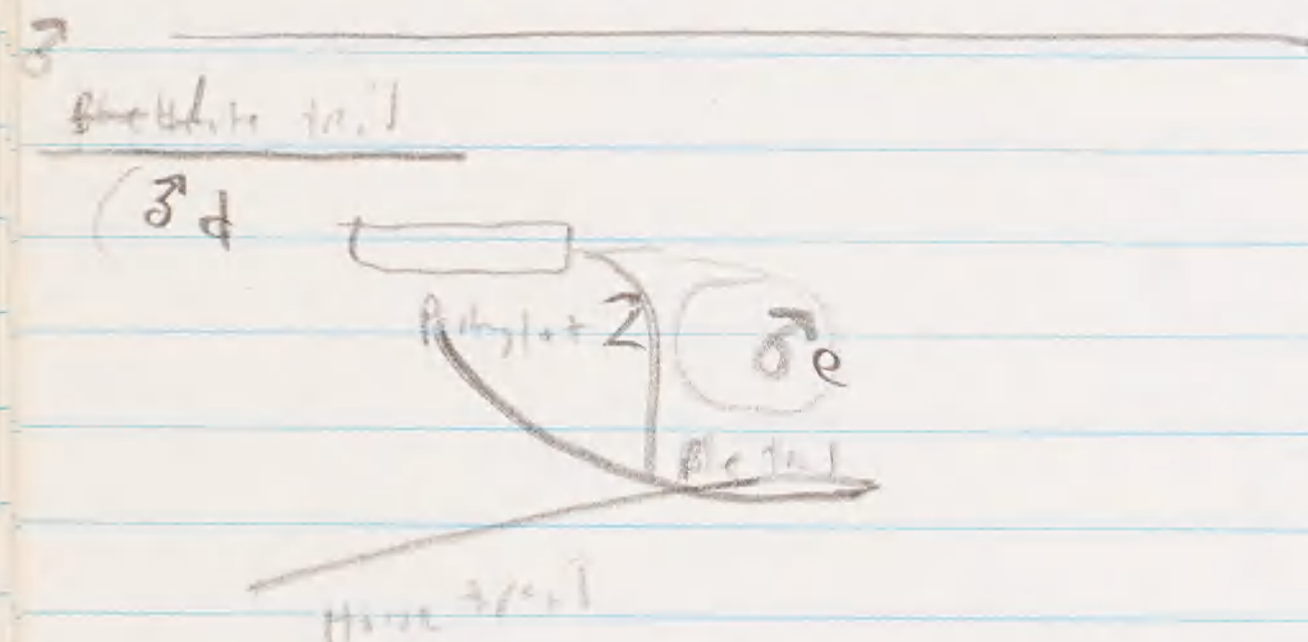
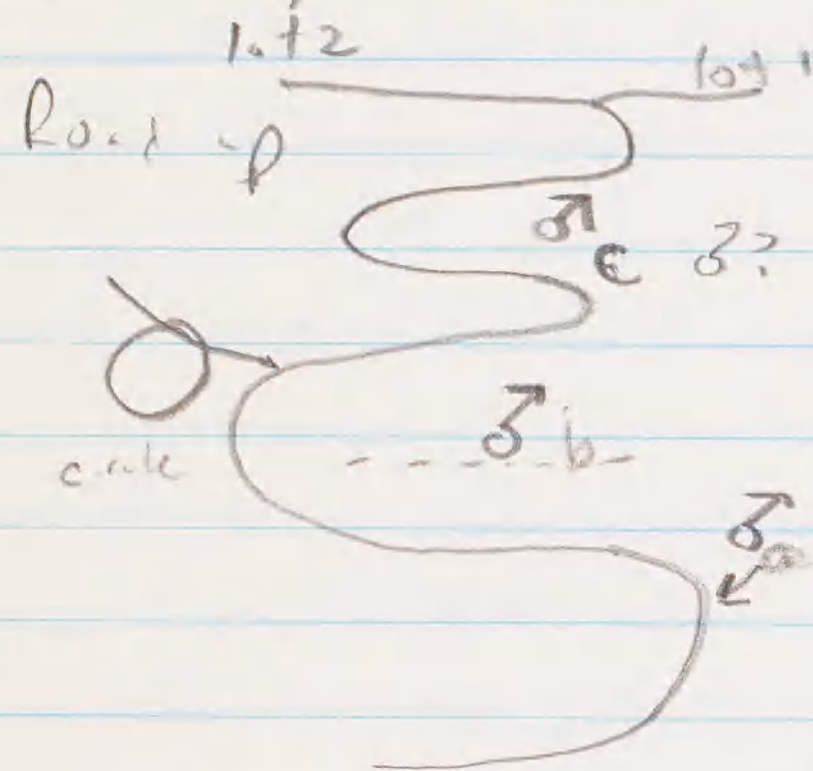
✓ 1 not a pair in - oak canopy
12-15 1b (5 hang, 1 hg)
2 probes in e-rod leaf.



On lower pencil area loop

✓ found 1 ♂ - 5 1bgl x 3 1b hang +
1 branch gl
30' chestnut oak

13 May 730-1200



Foraging data

✓ a 20' Hylar cock - 1bgl x 6
catchpillar

✓ b 30' cock 1bgl x 2 1bgl x 5

✓ c 30' cock 1bgl x 5

✓ 15' up brgl x 2 - trunk gl x 1

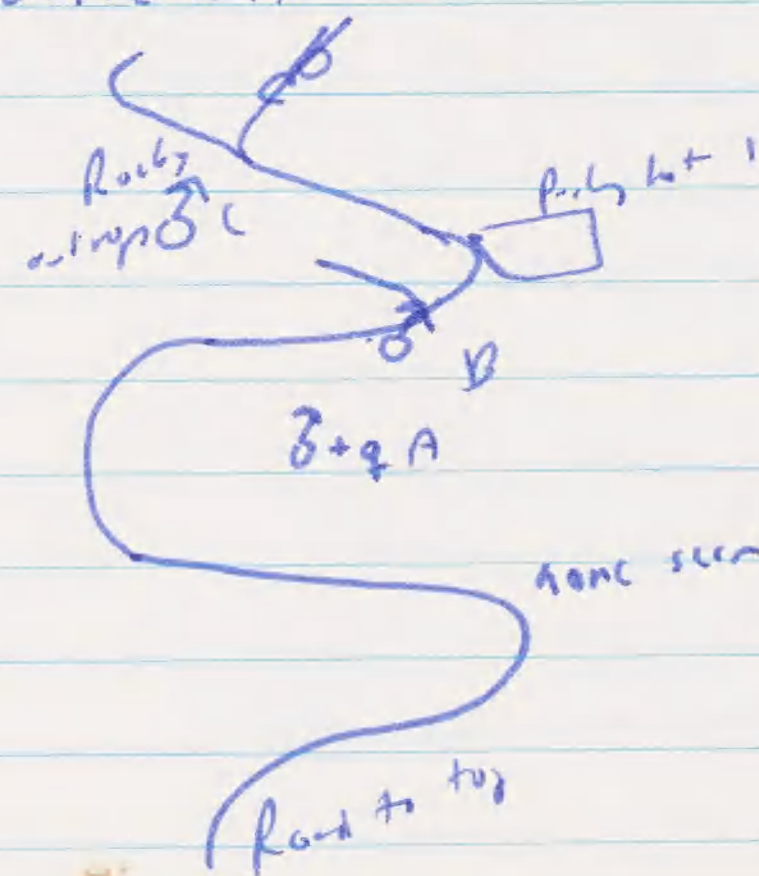
1bgl x 5

✓ 40' 1bgl x 7

✓ 60' continues to sing more
from the down - but I
saw no ♀

May 17

walked up Rock to top of
to beginning of Blue + Horse trail +
up white trail



♂ Bird A chard g q was on

ground a lot "busy" for

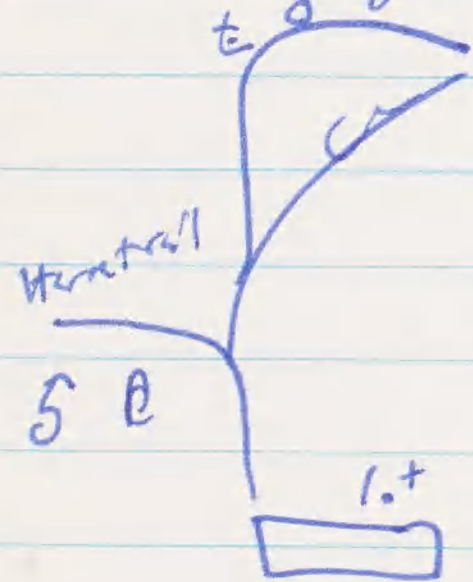
nest site?) no foraging on

ground ♂ found 10' in shrub.

✓ ♂ 35' c.o. with leaf damage

level ^{probe} green > 10 3 caterpillars

✓ ♂ c 5 x 3 by 35' c.o. 1 caterpillar



✓ male P 30' c.o 1 bsl 5 - level x 1
2 caterpillars

✓ male P 25' c.o 1 bsl x 5

✓ male P 35' c.o 1 bsl x 2

May 18 8:00-12:30

stayed at top area

watched foraging along whole

800-930 1130-1200

tree (on slope). had pr

several times chipping in

shrubbery - one came up

✓ into c.o. - picked 3x leaf and
glancing got 1 caterpillar

one bird nuzzled me 2 times

♂ in widely separated places

♂ - ♂ not singing at all

hd δ down trail + slope

went to Horse trail δ

✓ 30' C.O. lat cut probe x 5

got 3 samples

down Blue trail watched δ at Bird

✓ 25' C.O. 16 sl x 3 lat cut probe x 1

hd δ down slope.

went to "canyon" area - bc saw 2

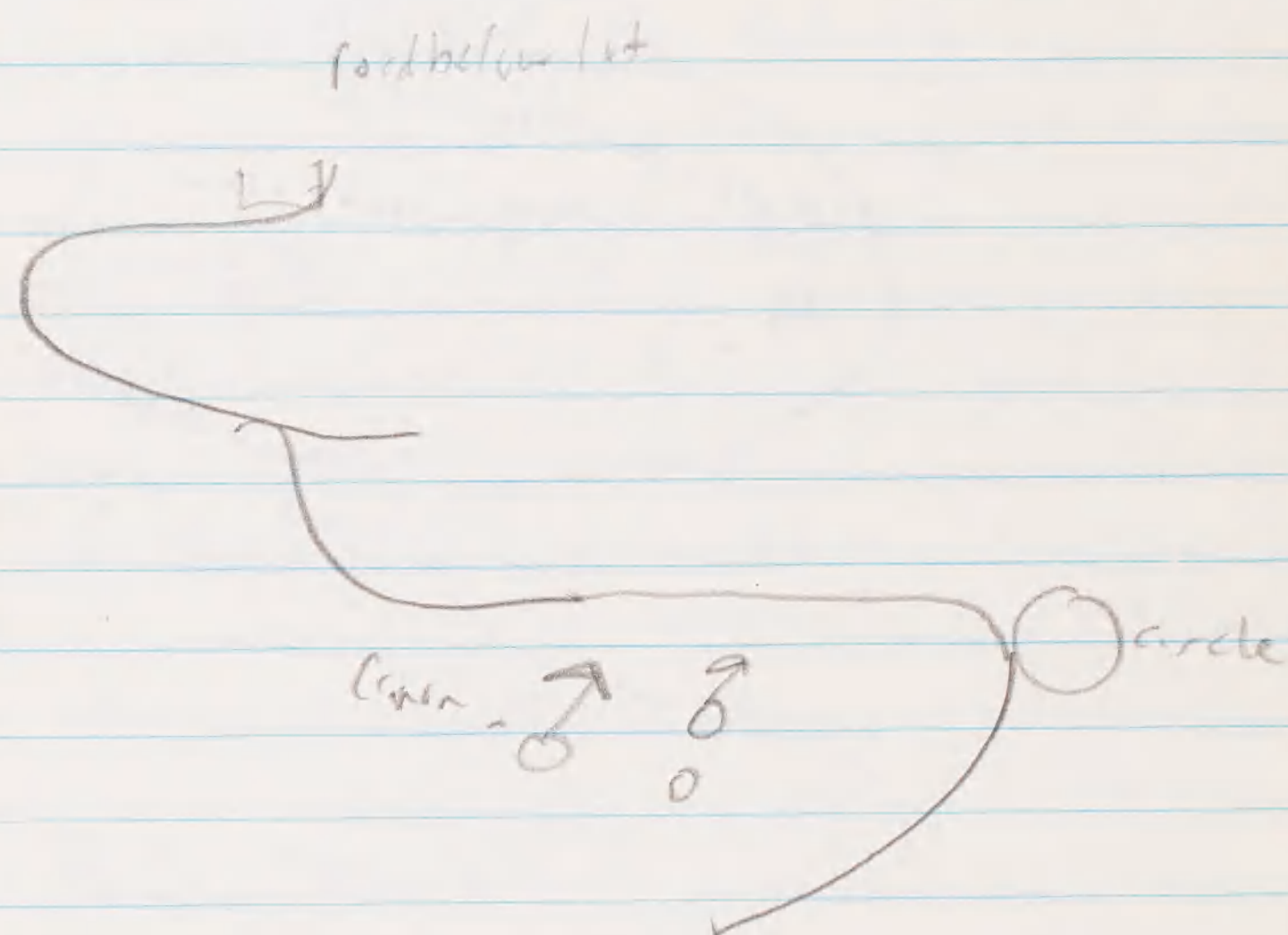
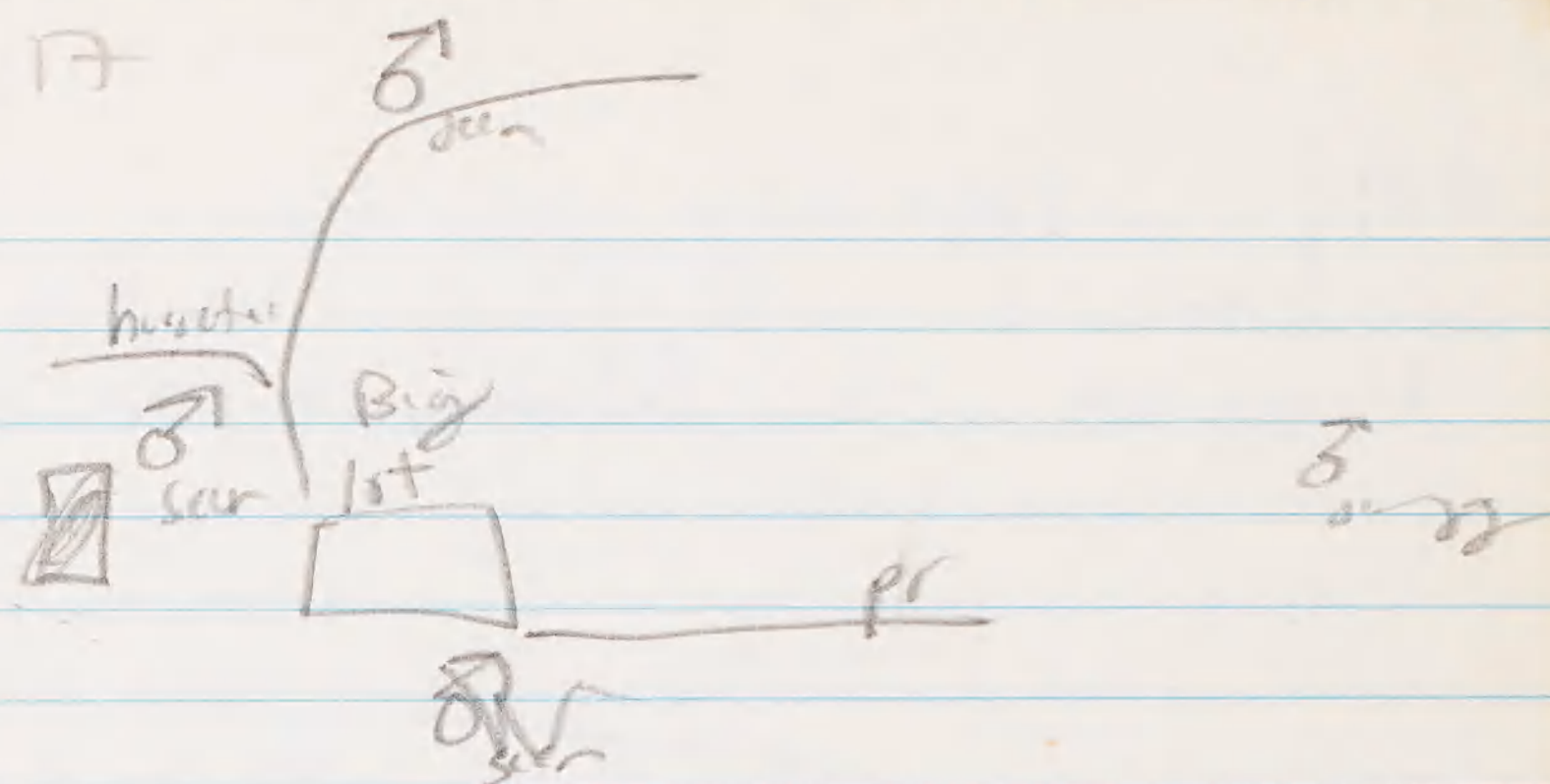
δ near each other

✓ δ one when not singing - 20' - C.O.

16 sl x 2

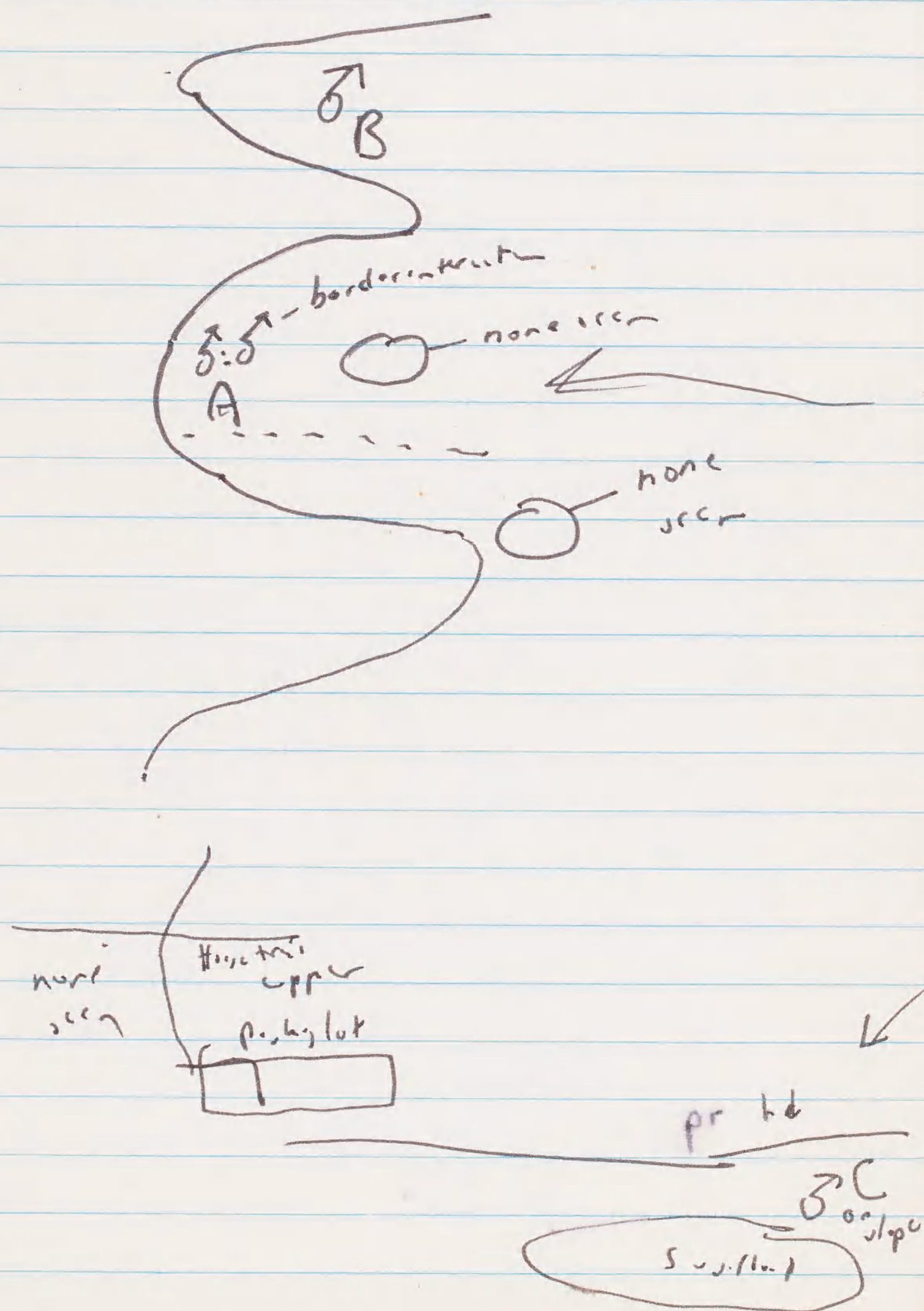
✓ 7th δ lat cut probe x 5 - got
2 gillies.

May 17



19 May 830-1230

I checked the following territories



✓ ♂ A 5-10' 1b glen C.O/Azalea ground feed, Dead leaf prob x 2

✓ ♂ B 40' 1b gl

✓ ♂ C 20' hg @ 2' 1b-1b gl x 4

note
Territories where ♀ have been seen

♂ stop singing all together

singing, he stopped on a third territory.

7 juv ♂: ♂ interaction at territory A - as usual

chasing place near ground,

Monday 23 May 1200-1500

I checked territory by ^{white} Blue Trail -

seen & heard nothing. 3 was

singing on the territory on slope.

I cut down towards Blue trail

✓ from white trail & found 3 singing

low in understory (C. Oak 16 glen x 6)

it went into ^{lower} ~~Acacia~~ bush &

continued to sing.

♂ at 1st census at ~~at~~ P. trail

could not be found, nor could

♂ at House-trail - Blue trail set.

I went to lower pencil cove

(by (unum) + from roadside ±

seen 9 foraging rapidly 20'

✓ in C. Oak (16 gl x 3). FL

dropped onto ground & disappeared

It was on a nest - looked

under the small honey-suckle plant on

open hillside. - 4 warblers & 1 cowbird

egg.

I collect 100 leaves from lowest

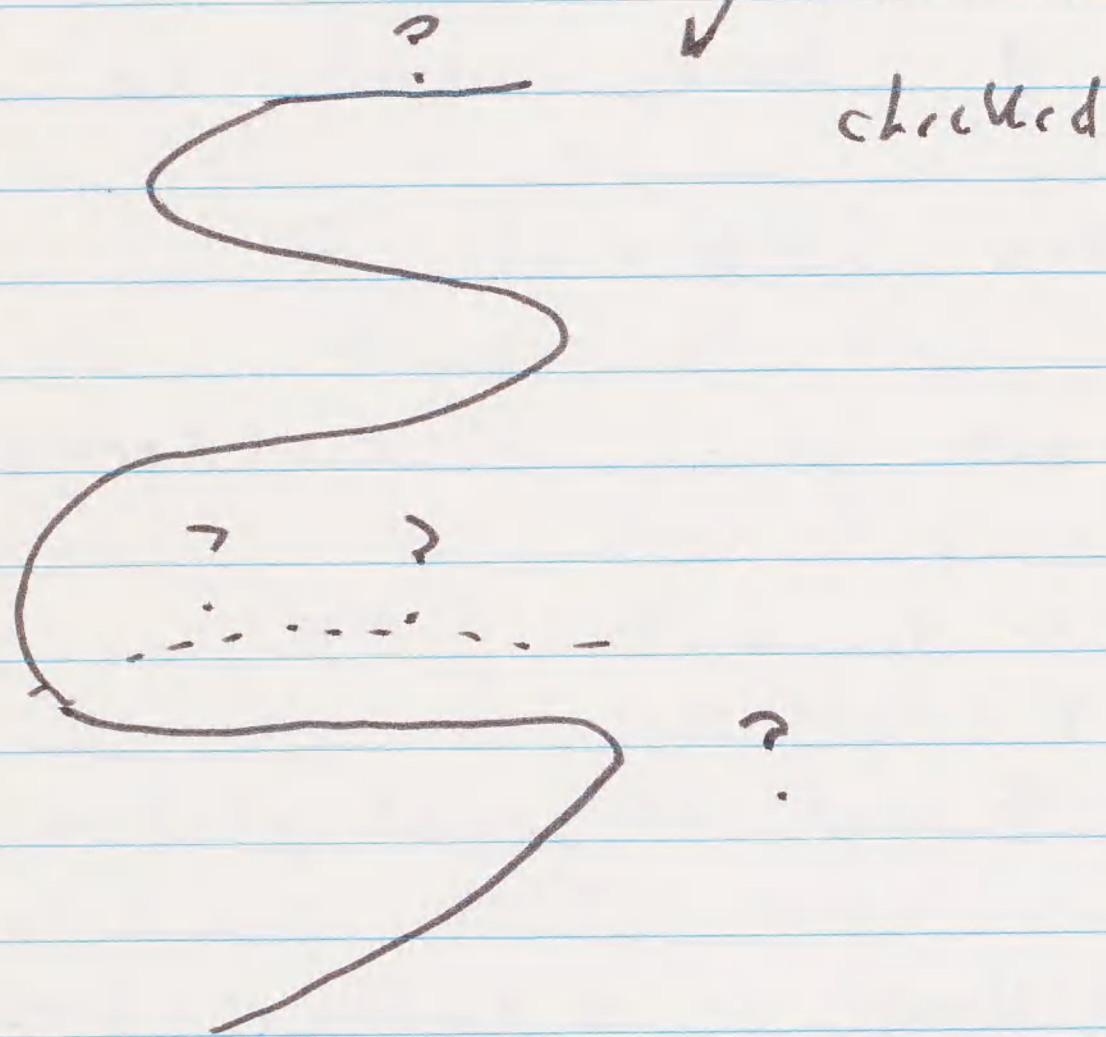
trail.

Tuesday 24 May 745-1245

I check a number of

territories today without hearing

or seeing a WEL.



location

checked

+ I checked territory on

side of white trail for

territory approximately 1 hr -

I had birds claim or

one point.

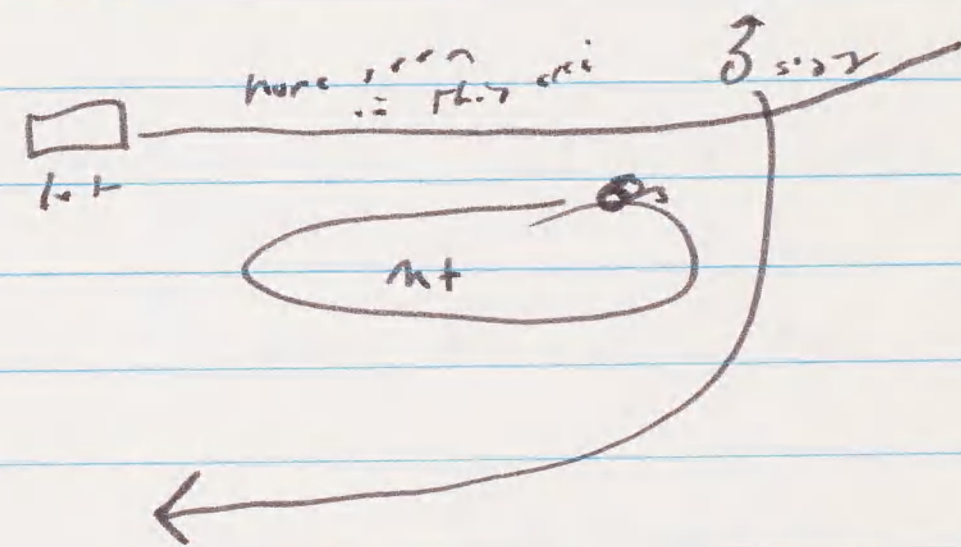
27 May - cool breezy 730-3:00

checked first territory at bend
of road - no birds seen.

went up to Circle area where I
followed singing ♂ 15-20' in c. o. u.
16 gl x 15, 1t sl x 2, hg x 2, 1t f edge
✓ probe x 5 hg 2" - got 2-3 'pillars'.

went to top parking lot + checked

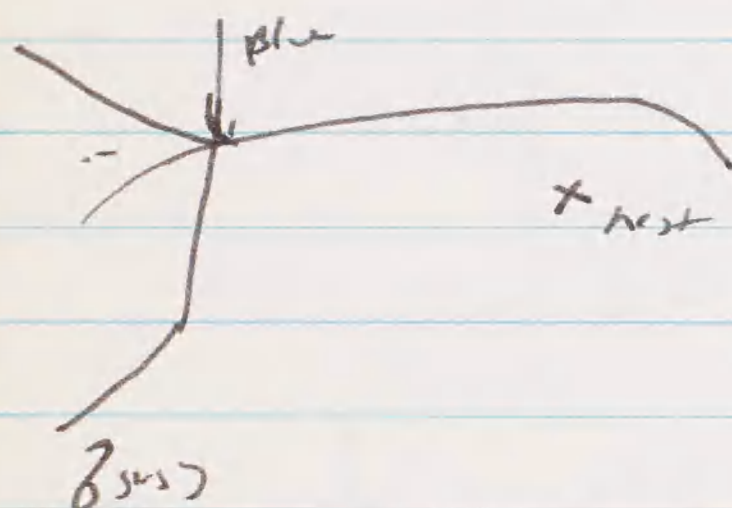
while
slope below the trail ♂ hd



✓ watched for 1 hr sun sun.

10' 16 gl x 5 hg 2" x 1

Found nest in territory at
intersection of Horse Trail & ^{Blue} ~~white~~ trail



♂ brought in black poller - ♀ sat

calling from dead leaf as I watched

once again at base of small shrub.

3 young, 1 high (cuckoo), 1 egg.

✓ I found singing ♂ on blue trail bird
• 10' 16 ft x 5 C-ock
sat 1 poller
black glen

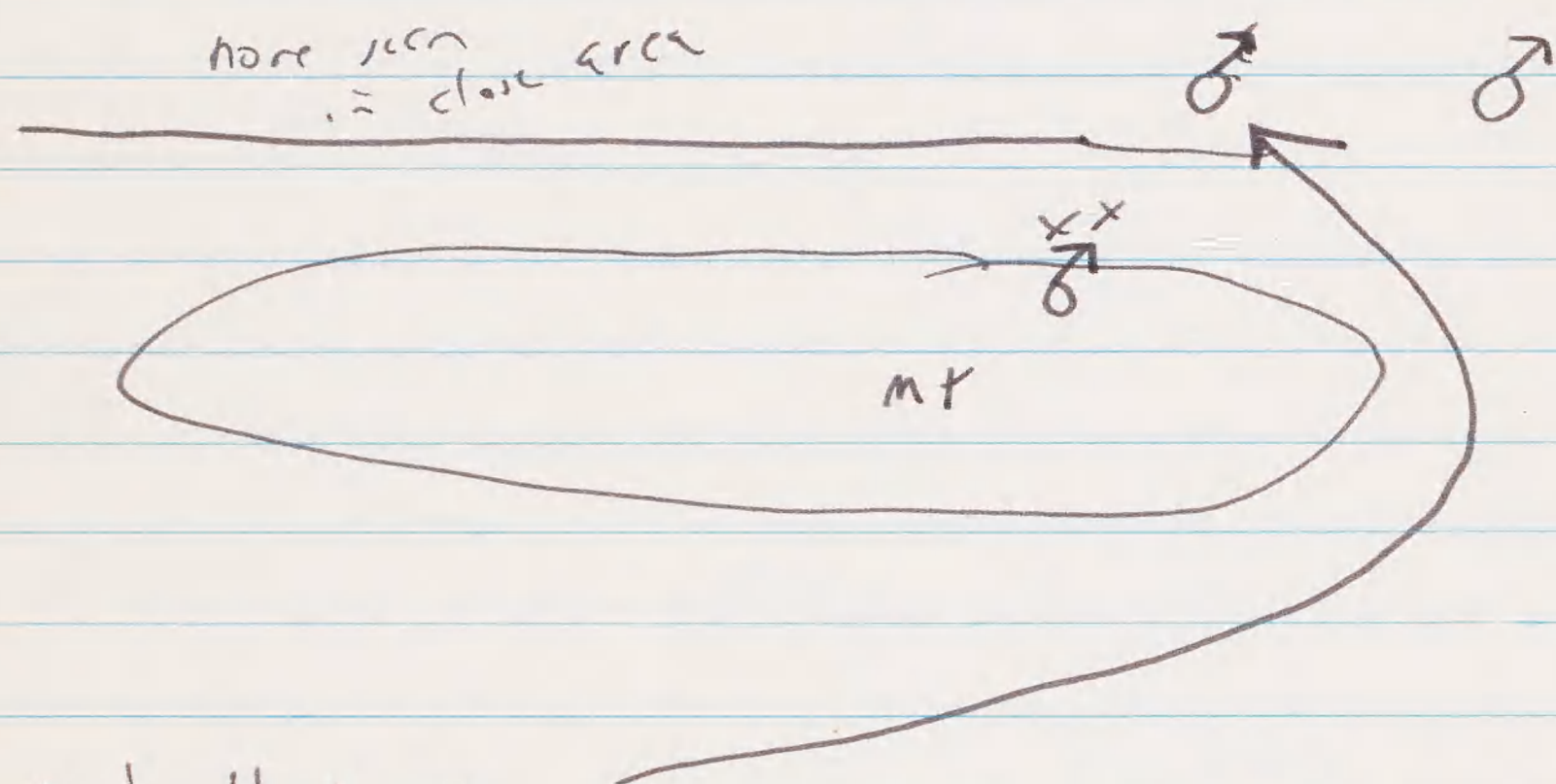
I checked slope below
white trail & then
I checked slope at first
bird in road & saw no more

28 May 800-1:00 cloudy + calm

check slope below white trail

seen + heard 4 + ♂. ♂_{ndy}

♂:



20' 16g1x5

Found P.E. Vireo nest with 3 eggs + 1 unhatched egg

30 May 800-300pm
cloudy - showers until noon -
then clearing up.

I worked up rd - thought I

had singy ♂ along first stretch -

checked "corner" territory + saw

2 WEW chirping + chipping thru

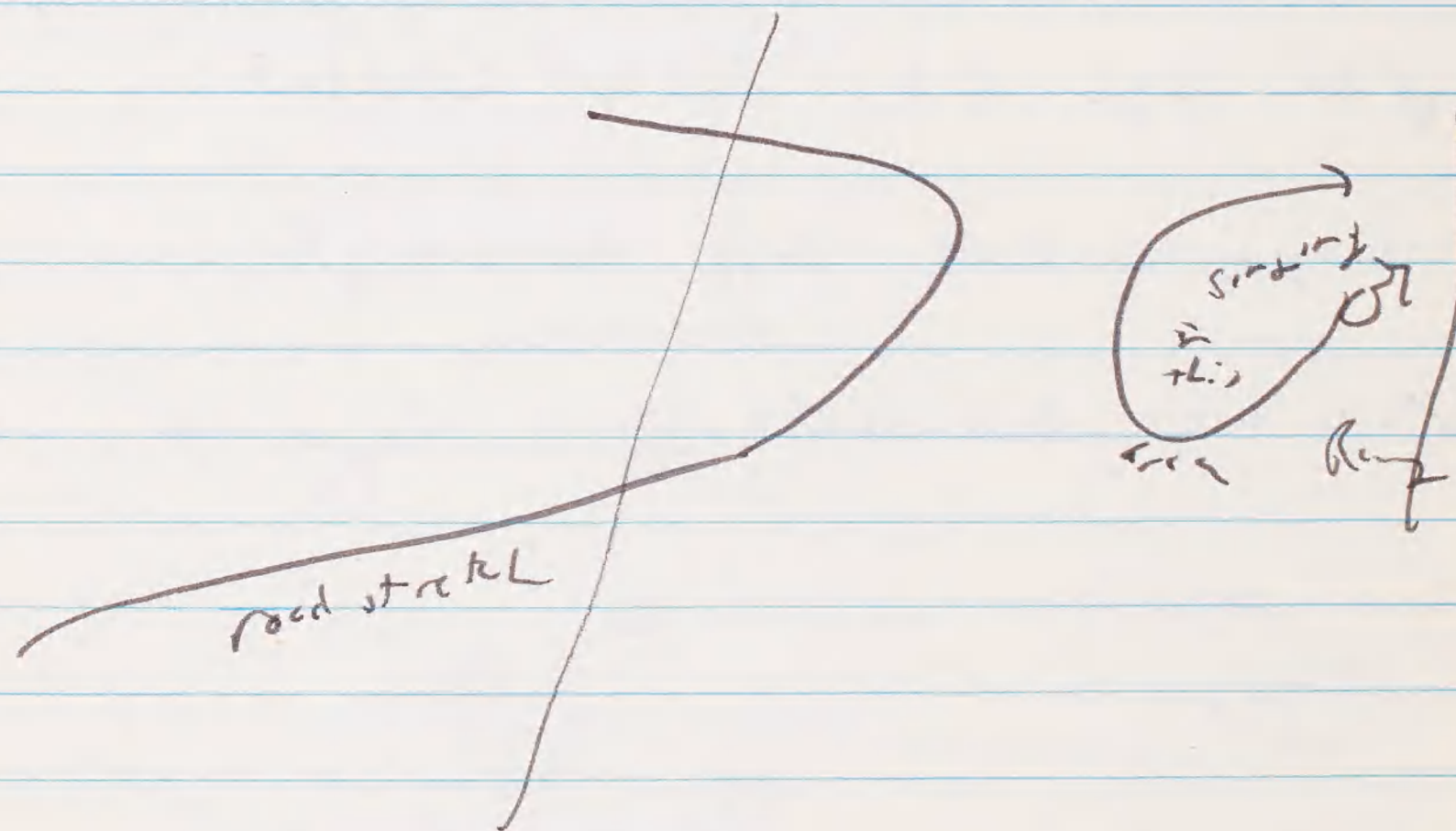
had 2 ♂♂ singy. ♂ singy from

had

usual area

drill

WEW seen chirping



✓ seen low in Do-oud rd' 16g1

the 5 song 20' c.o. h
✓ 16 gl x 5 D. mixed lat gl x 1

~~I drove to top~~ I checked
area above trail + saw nothing

I drove to top + worked slope

below white trail. hd 4? ♂ in

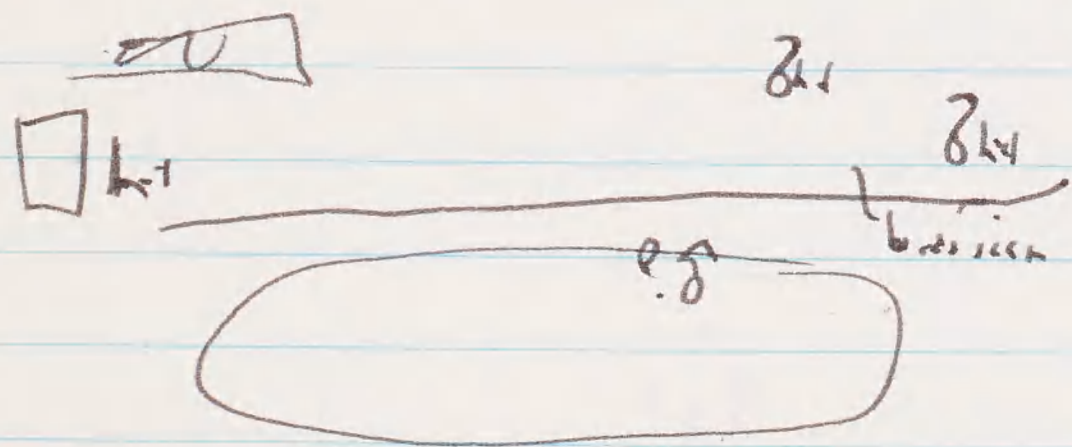
area - saw bird ^{in bird} from 100

in undergrowth maybe off nest.

✓ 20' 16 gl c.o. dead lat (ch lat)

hanging in oak gl. - ~~to bird gl.~~

✓ 2nd bird - dead lat ^{ch lat} in ^{gl} - gl.



I look next at Horse trail + blue trail

- it was empty + rather dry was

stream near opening. ^{LEU} bird + REV

mobbed me 20' - + checked
chipping loudly

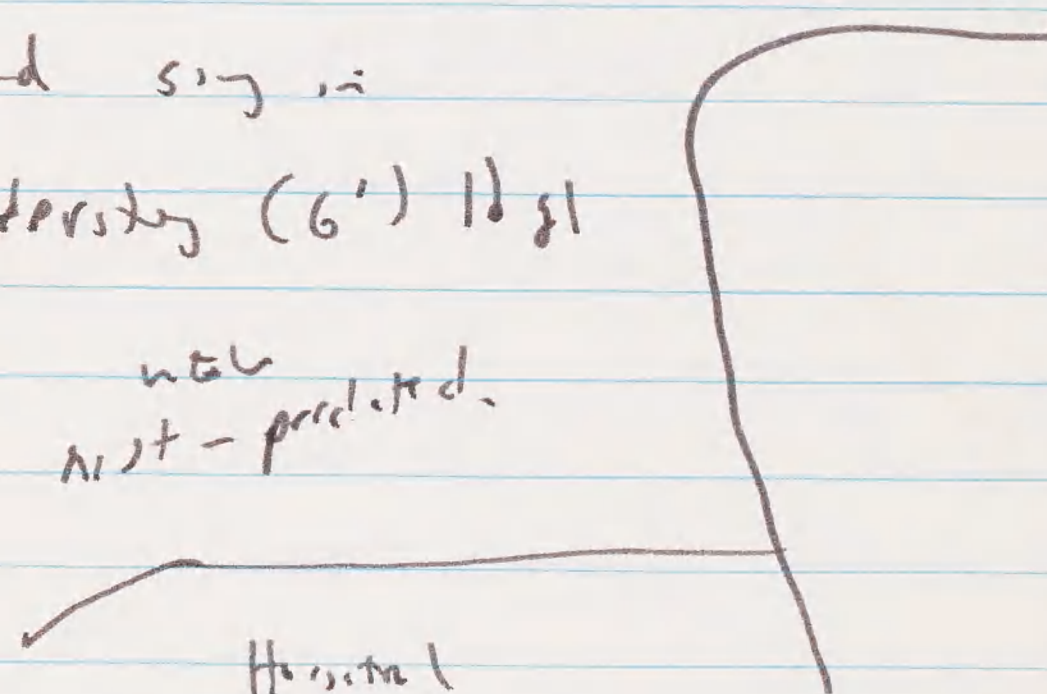
✓ dead lat cluster in oak (ch lat)

I found bird at blue trail
♂

bird sing in

✓ undergrowth (6') 16 gl

with
nest - predicted.



I collected 100/100

near traffic circle

31 May 815 - 300

the top Parking Lot - Area - ^{Overcast to partly cloudy}

✓ I watched from Talar slope
The slope facing 3 was singing from
tall (Och.) some down once -
3 - no ♀.

I watched along slope below White
trail & saw 2 sets? of
LEW. The first: - one came
rushing out of Laurel shrub. I
got down & Ld soft + subsong-y
✓ (leaving-like chattering) + Ld gl Azules
leaf. then I lost it.

✓ 2nd is end ♂ + it presumed
h g. ♂ + another purely chirping

✓ bird moved together through
understory - occasionally ♂ would
go up into low canopy.

♂ from understory sang
soft + shortened songs

foraging: deciduous shrub under lbg
✓ Aral lbg + Lg (♀ got
piller)

It forage for + pulled.

♂ - dead litchick, Oak leaf in Oak
leaf. dead leaf (Och: laurel)
✓ was perched in leaf

2 times I saw birds forage
on ground.
1 probe Oak leaf - got pillar

New ♀?? in this territory

May 31 - 1208 overcast

Leaf (cans) - 1000 level

Level 1500 oak etc.

50 - 0

50 - 4mm spider H

3mm black/red beetle lb

50 - 0

50 - 0

50 - 0

50 - 0

50 - 7mm green dragonfly H

50 - 0

50 - 0

50 - 0

500 - 50 - 2m?

50 - 0

50 - 0

50 - 0

50 - 0

50 - 0

50 - 0 3mm fly H

50 - 0

50 - 0

50 - 4mm spider

2/1,000

5000 50

(2cm level crop) 1b

3mm spider lb

2mm hemip lb

6 or 4mm microp lb

20

15 1mm microp lb

4mm fly H

2mm hemip H

20

- 0.6 4mm jack lb

50

- single 1mm black p.m. H

H. chry 50

2 x 2mm green hemip lb

Cherry - 50

1mm black p.m. lb

Ant + Oct 50

4mm black p.m. lb

3mm spider lb

C. Oct 125

3mm fly H

420

C. Oct 50

2 x 3mm black spider

H + dragon

2mm beetle H

" 50

- 0

" 50

7mm spider H only

fly
2mm beetle H

Hickory 50
" 50

lean right
-U

? 50

2cm wavy lb

Spruce 50

30
microtop

Maple 50

4cm 2nd hump lb

20 } Hickory 50

5

Maple 50

Small leaf sh-b -50

3mm 2nd hump hump lb

Hickory 50

9mm up: 2nd hump
2 - 2nd hump 2b
9mm black + red
rather in hump lb

O. l. red hump 50

5th
2nd spike duple

Maple 50

Hickory 50

Oak 50

0

Maple - 50

-U

Hickory 50

-6

Hickory 50

0

Maple 50

-U

Maple 50

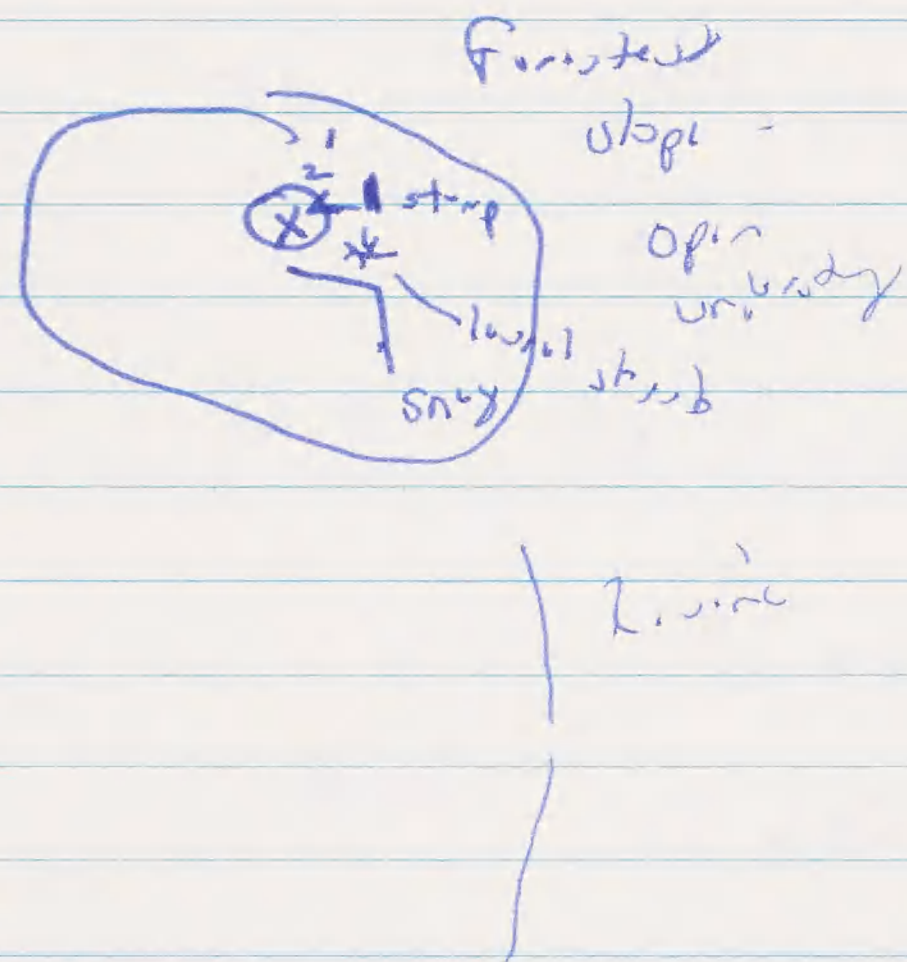
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C. Oak 50

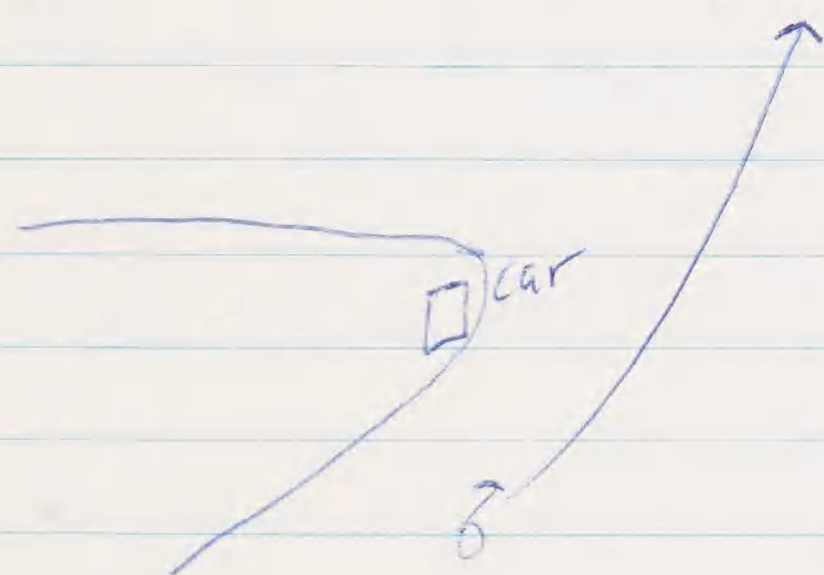
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10/1500

Map to B&W Warbler
nest



Saw ♂ on corner forestry - saw it
✓ 1st forest x 3
thing on
about 20' up.



2 June 1930 -

I checked slope below white trail
+ saw ♀ B&W Warbler off nest
it was in small tufts + foliage
glanced a couple of times (also
creeped in the tufts)

I watched singing ♂ W&W -
probably the same bird

I followed 5/31.

As I watch ♀ come in
chattering softly with soft
in back. ♂ gave short
trill over ♀.

I also see a shag-trail in

flight when I went up to

craps to feed she visited

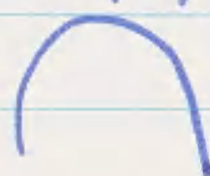
spot on ground repeatedly -

getting roots. I eventually

found nest at base of

lurel about half finished

lurel
stump - Klorax
stump

Big Rock


Q Forged many in subcopy

✓ cherry trees (16 large 16g1 x 5

15-25' up. as did ♂

♂ at base of mountain was

singing as well.

Insect census

1230 sunny-windy

Broad leaves

Maple TO -

1cm thin green

caterpillar 1b

1mm thrips 1b

Hickory

TO 3mm wasp 1b

C.O

TO 2mm spider 1b

C.O

TO - 0

C.O

TO 1mm tick 1b

Hickory

TO

C.O

TO 2c long 1b

Maple

TO - 0

C.O

TO - 2mm spider 1b

roll-nick

C.O

TO

C.O

TO roll-nick

C.O

TO - 0

C.O

TO - 0

C.O

TO - 0

700

C.O

TO

R.O

TO

C.O

TO - 0

C.O

TO

Hickory

TO

but eat small 3mm larvae

Maple

TO

3mm wasp 1b

C.O

TO

Scutellus

IT

2c spider 1b

-

1100

C.O

TO

Hickory

TO

2 & 3mm wasp 1b

M_{ph} TO lat coll - made

M_{ph} TV —

H_{ph} TV 5mm milk lb

C₁₀ TO

C₁₀ TV

M_{ph} TV

4/1500

A. Gould
~~found~~ TO

0

TV 0

TV 0

to

TV

1. Ten thin fish
'piller

50

50

50

50

50

500
500

50

50

TV

50

3mm long, lb

50

50

50

50

50

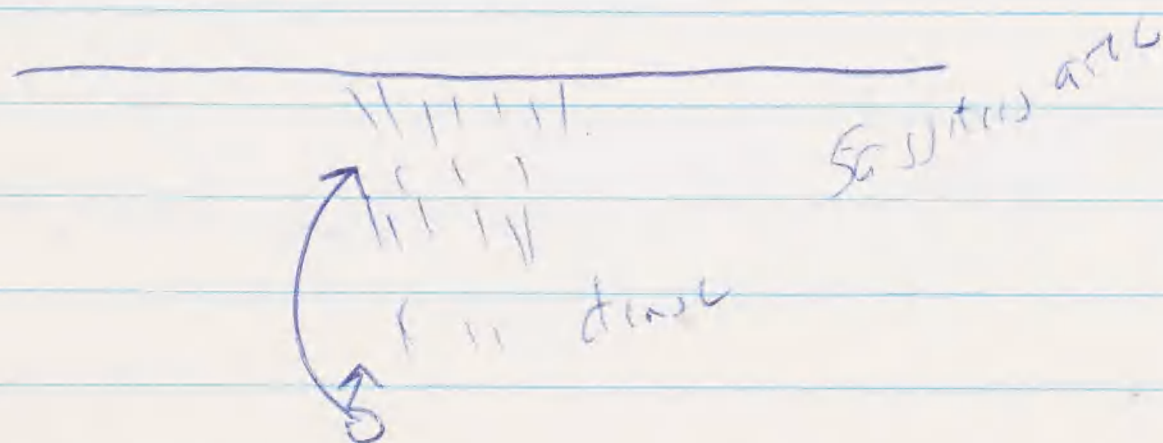
50

2 mm spider 1+
(plucked 1st)

2/1,000

saw 5 below white trail sing 12

underly 6' - local 1bgl x 6,
5-8' x 10'



1/2

checked corner territory area
& found no warblers

I then checked slope where Btw Warbler.

nest still had 5 eggs.

I check territory at mid-slope

saw 9 at nest keep rigidly

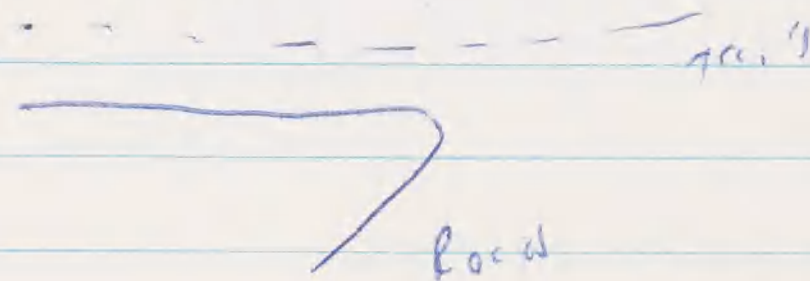
6-10' Deck 1bgl x 3

lost 15 1bgl (1 caterpillar)
hang 1b x 2

Protected woodpeckers feeding young - new

plaged

♀ (territory)



Leaf Collection #3

base tree

Spiders

1mm III (3)

4mm III (3)

5mm ~~III~~ II (7)

9mm I (1)

(1)

14

Millipede

14mm (1)

Dipteran

"gnats" ~~III~~ ~~III~~ (10)

6mm I (1)

Grubs

8mm I (1)

12mm I (1)

13mm II (2)

20mm I (1)

5

pupae (lep) 10mm (1)

Beetles

1mm II

5mm I

6mm I

3

Leaf Collection #4

circle

Spiders

1mm IIII (4)

3mm III (3)

4mm II (2)

5mm ~~III~~ I (6)

total = 13

Grubs

10mm I (1)

11mm II (2)

total = 3

Beetles

1mm I (1)

2mm I (1)

3

Moth cater 1cm 1

millipede

15mm (1)

Opiliod

3mm (1)

Ant nest (one)

with eggs
and pupae

①

1/3 830-1330 mostly
sunny & warm.

I went up road &
checked corner territory &

territory above path - Corner ♂

was singing over ravine later

in morning - but I saw

no ♀

I found ♀ & ♂ WEL

fairly low in undergrowth near Pile-hy

✓ Woodpile nest (1 egg) in

Lowest 6-10' - ♀ fed rapidly.

I checked P7W to nest -

had 1 egg still - ♀ got off

nest & fixed on bark for

several minutes before dropping

back on.

I checked slope over &

found no more WEL.

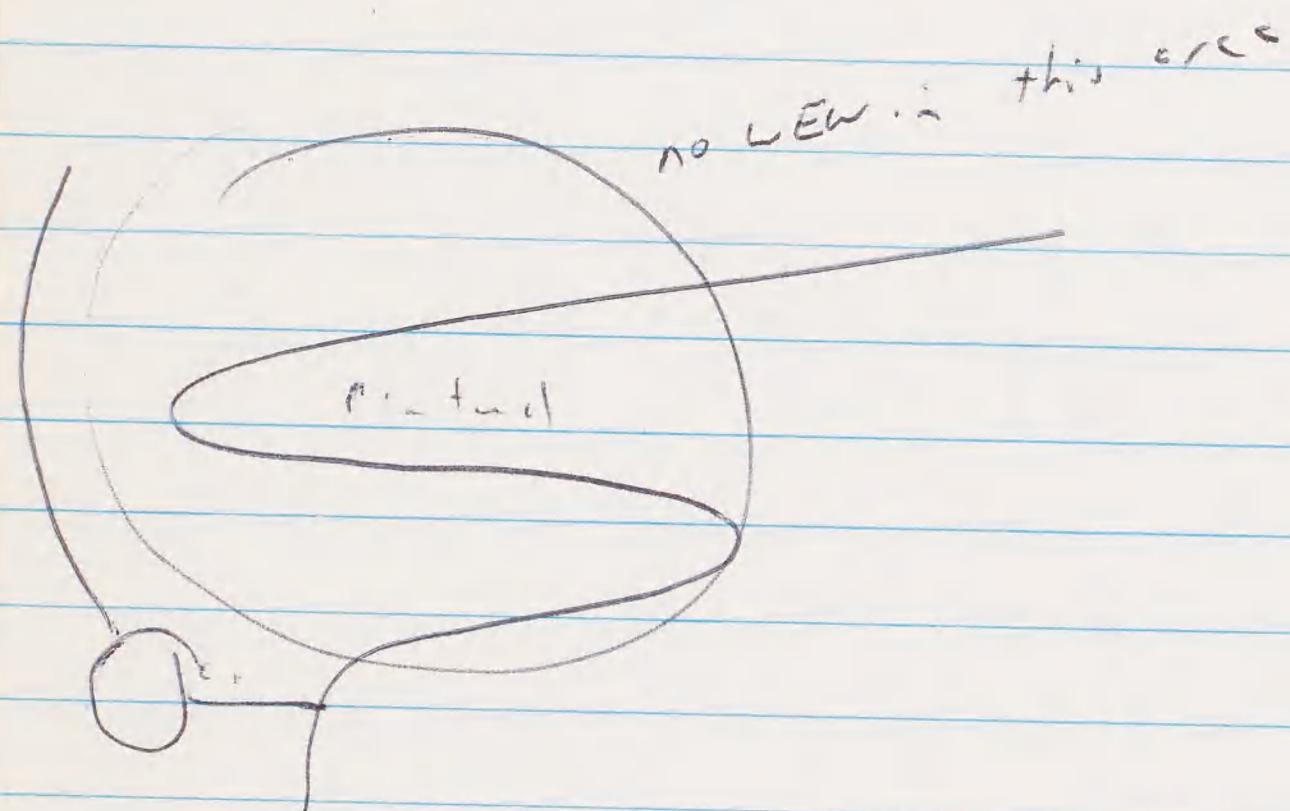
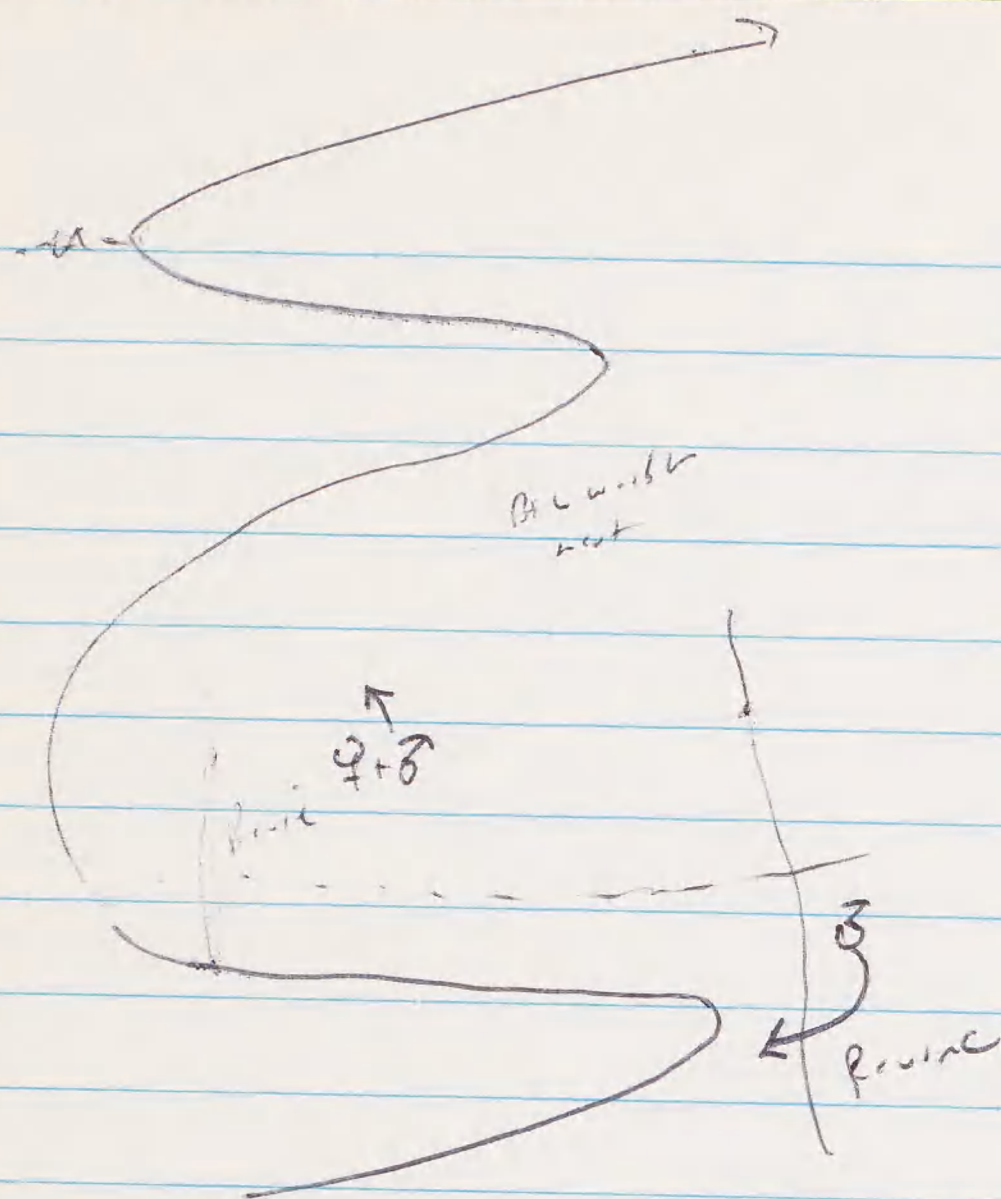
I checked area ^{along} ~~near~~ Circle

on slope & saw no WEL.

(saw 2 rat snake).

I collected Dead leaves at

first party lot.



5 June 1983 800 - 300 pm.
warm 80-85 high clear.

checked corner territory - ♂ sing directly.

checked slope territory. saw

♀ off nest feeding rapidly - ♂

♂ was singing - ♂ & ♀ were close

♂ gathered 5-6 green grubs in

bill - couldn't see where he went.

Saw him down slope later.

Came back in afternoon singing

sing ♂ - feeding rapidly - got sick

brown grub & went up slope,

Feeding:

✓ ♀ - locust 6' 1b gl x 5 1b hang.

✓ ♂ locust 6' 1b gl x 5, 1b hang & 1
1t gl.

Diswood 10' 1b gl x 3 - checked
dead oak leaf cluster
may have gotten something

common 5 - locust 6' 1b gl x 3.

Found ♂ in dense grasses
thicket below white trail song.

1 saw ♂ on slope at mtn -

no ♀♀.

checked nest of built on 1/2

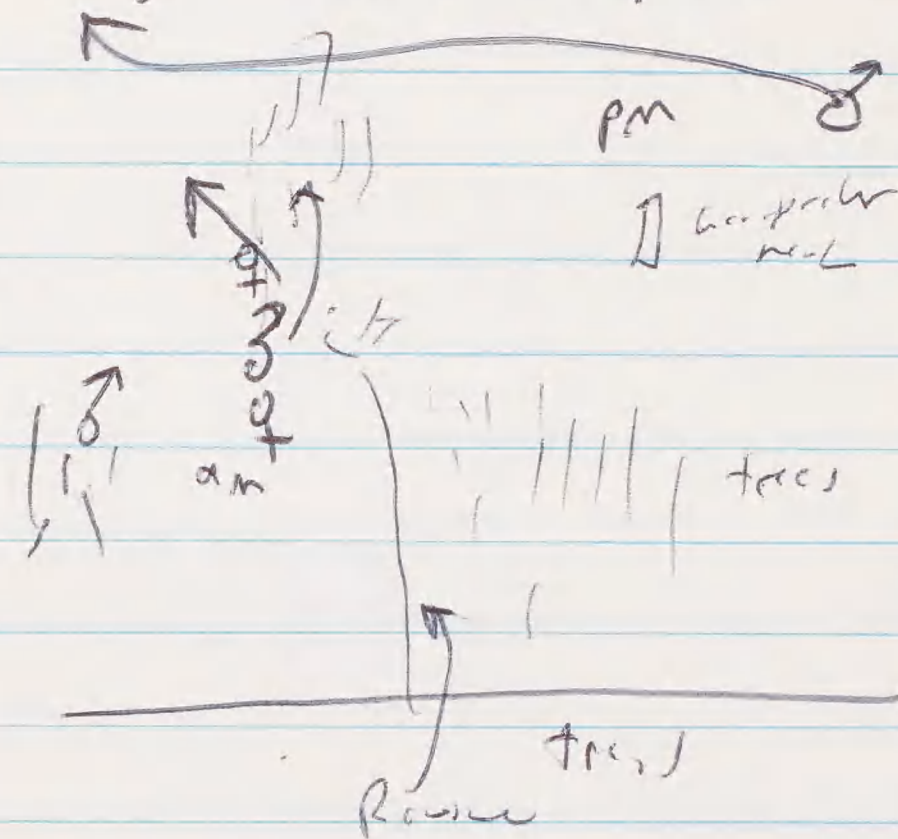
& ~~see~~ it was complete with

no eggs.

B+L warbler nest had 5 eggs

saw no warblers

territory on low slope:



1/6 insect census

1 3 T

2mm sp. 1st
1b

2 50 C.O

0

3 50 Dogwood

4 50 Dogwood

2mm sp. 1st

5 50 Oak

—

6 50 500

7 50 Oak

8 50 Oak

9 50 2m fly 1st

10 50 1st

11 50 Dogwood

12 50 2mm sp. 1st

13 50 1

14 Birch

1cm to 1st 1st

15 Oak

16 ? 50

17 ? 50

18 C. Oak 50

19 H. fly 50

20 50

21 50

4mm moth 1st

22 50

23 1st 50

24 1st 2 50

25 50

4mm sp. 1st

26 1st 50

27 100-50

28 50

3mm back 1b

29 50-100

30 100 100

Level 1

1 50

3mm 2 max 1me 1b

2 50-

3 50

3mm clatoid 1+

4 50 - 0

5 50 - 0

6 50 - 0

7 50-0

8 50-0

9 50

1 3mm sp. 1b

10 50-0

11 50-0

12 50-0

13 50-0

14 00-0

15 00-0

16 00-0

17 00-0

18 00-0

19 00-0

20 00-0

6 June 930-330

Went up with Kim young.

Spent most of morning

staking out slope nest-

We borrowed from location

on upper slope - saw ♂ ferry

✓ 10' in locust tree - 1b h x 6 -

1b h x 2. 1d ♂ sing short song

on way to nest area.

checked nest on side of Sugarloaf

mt. ♂ sing ²⁰⁻90' in cherries

See no foraging went

all over slope but no luck

♂ on lower below white trail

quiet.

Found new ♂ in undergrowth

upper
below parking lot. Followed it

as it sang in a small

✓ circle. Lbgl x 4 6' in Laurel.

Went back down + found

nest on lower slope -

One day old chick + 2 eggs + 1 warbler's
egg

♀ shut off nest on

ground silently.

7 June 930-960

checked ~~see~~ white trail -

♂ singing below surface ground.

didn't see it.

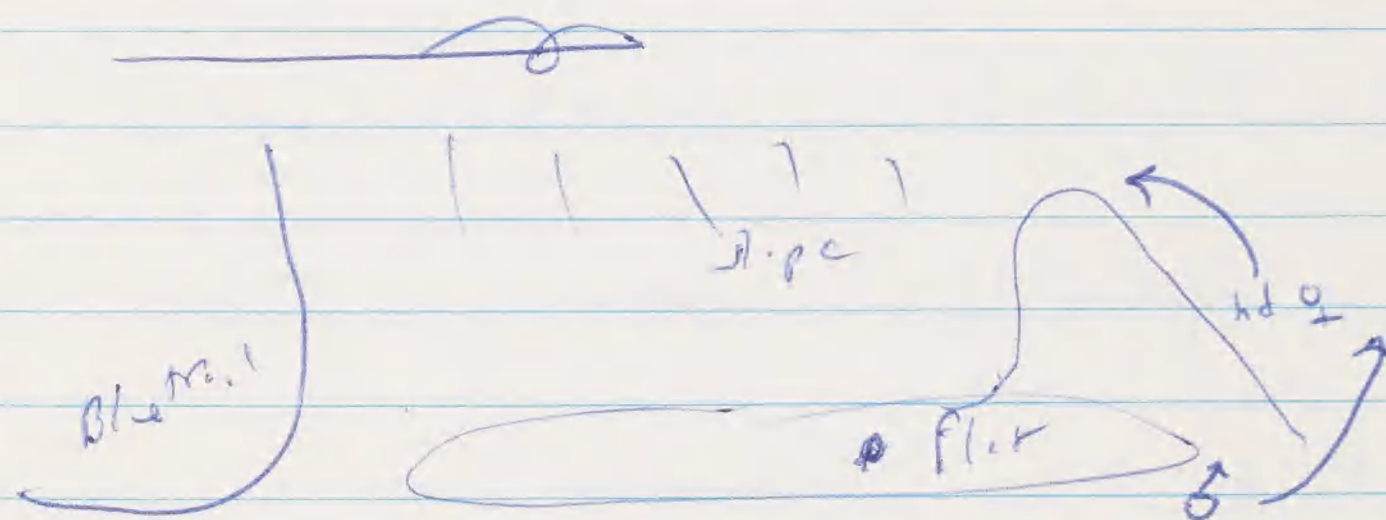
♂ sing at Parking lot lot area!

cut to blue trail + checked out

territory at corner in blue trail -

no luck.

see pair on slope:



5 going sing & short

song from underdog - d.r.l

birds chirping.

✓ q-b' level; |bg| × 8 dnd lat (0.6) ×
 ↓ 8
 1.2 cm retropl. layer

I watched 3 on

terrace below parking lot.

I've never had this bird

below. 3 song sporadically

main for 1-11 sh(ish)-

at one point it was

close to ground - 1 method

the are a bird attached

later + gave short tail -

likely area to check out

Ferly!

Lower $b' - |dg| \times 4$

✓ C.O.L. 15' 16 g/l x 2

Level 4' 1st large x 2 - pillar

Level 6' 16 gal x 4

7-2' off sand 1+ glass
ground forage.

B + w wubler - 4 new babies! + eggs

WEW nest - slope - 3 scrub
behind - 4-6
a destroyed warbler egg.

Insect (cous) - broad leaf plants

- 1 ♂ - 0
- 2 ? - 0
- 3 Myl 1cm moth lb
- 4 B. 212 - 0
- 5 Myl
- 6 ? 2cm moth 1+
- 7 ? - 0
- 8 ? - 0
- 9 ? - 4mm moth lb
- 10 ? - 0
- 11 ? - 0
- 12 - 0
- 13 - 0

14 - 0

15 - 1mm sp. 1h

16 ♂ - 0

Myl

17 - 0

18 Myl 4mm (c) 1h

3mm honey 1h

19 Myl - 1mm sp. 1+

20 Myl 3mm sp. 1b

21 Rose - 0

22 ? - 0

23 2mm sp. 1b

24 3mm - 0

25 Myl - 0

26 - 0

27 1cm 7 50 - 0

28 he 7mm
beetle

29 1a 5mm
beetle 1b

30 C. 0.4

1 leaf cut

- 0

48 Sugarloaf - top 830-300

I checked out territory below

top parking lot. - ♂ was in

area giving short song - but

I didn't see or hear ♀.

I saw hyperphrynos bird in

✓ Cherry over parking lot 20' - 1bgl, 1bhing.

I checked territory below white pit -

had ♂ + probably ♀ as well -

below sassafras grove. - that's all.

Didn't see or hear ♂ on slope

at mtn.

at beginning of horse trail (just

below parking lot - had ♂ probably

♂ from territory below lot.

✓ Song from laurel - 1bgl x 2.

At ^{junction} beginning of horse trail +

blue trail (down horse trail 20 m)

✓ I saw ♀ feeding in laurel (1bgl x 10

1bhing x 1) 1bgl large got ^{1cm} pillar from

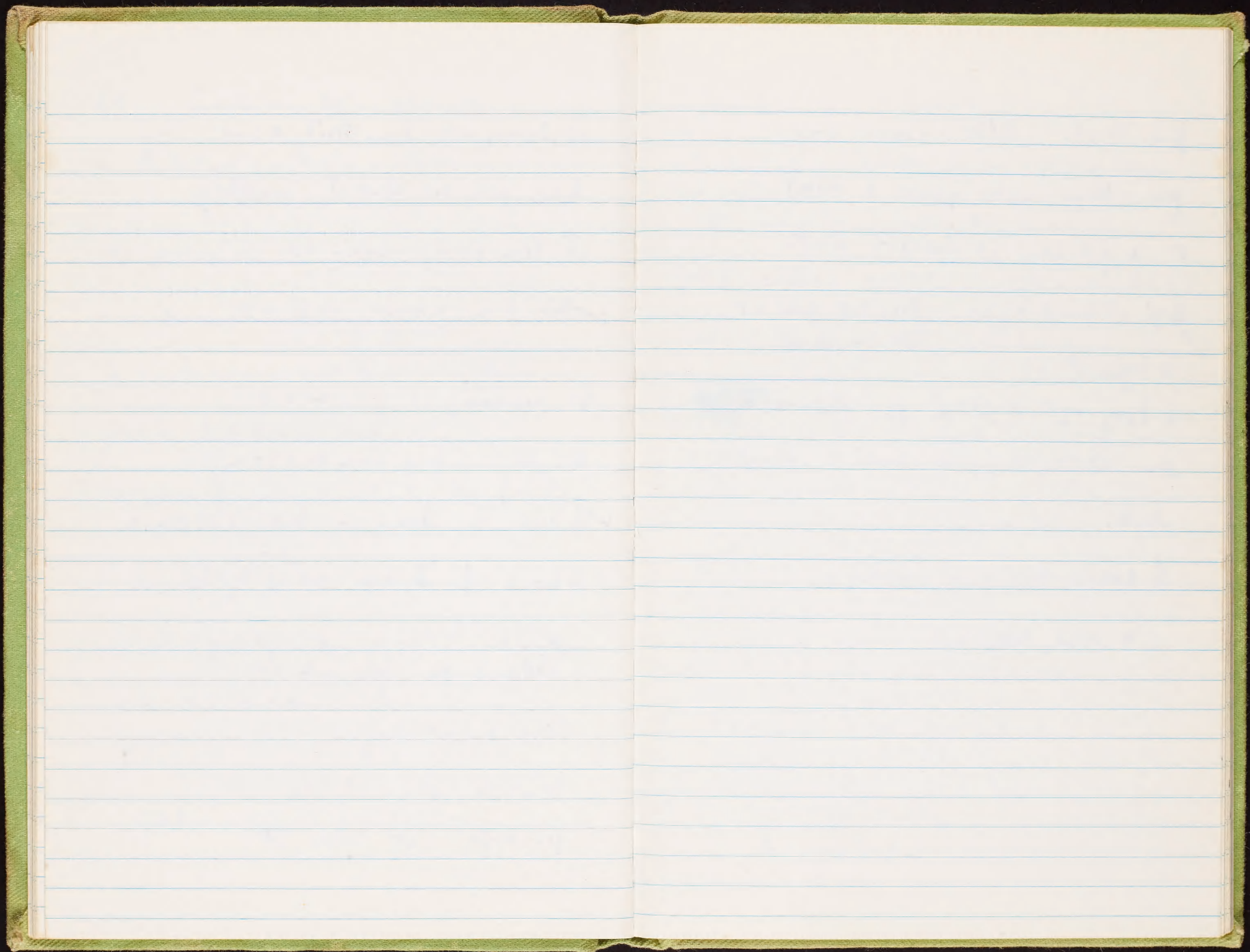
pet. etc.

followed to left side of

trail + lost it.

Went to pit I saw

yesterday at cave of



blue tr. l. After 1 hr saw

pair - they were quiet + tame

& 2 got l.t. + foraging data

✓ 1b gl at Laurel x 20 Dred leaf probe x 5
(got one thing)

1b hglash 6" x 1

1b hglash x 2 - got 2 green pillars.

saw looking & one bird sunned

itself.

♂ B+W warbler was feeding

a newly fledged bird

June 9 200 - 3:00 pm

I checked territory below parking lot
♂ was singing - further down slope
than I had been looking for nest

✓ 430' in Oak - dred leaf check → Laurel 6' hgl x 3

We X Jim Lynch + I) checked territory

below white trail - ♂ chirped in

me after I was mobbed by chickadees

it was initially in it's territory

✓ 430' in Oak - dred leaf check
flower glash.

I found it in the same area again.

♂ on slope of mtn was silent

nest by white trail had 3 eggs +

♀ incubation.

The big news is that pair
at highway at white trail were
heard from - ♂ was singing 30'
in bush & I saw Lynd thought
he had ♀ as well.

I checked area at Huxetree -

Blue trail Junction. & some

of Blue trail: for is 2

✓ Saw singing ♂ 10' in Pine tree (bush 1 x 10

foliage green too), I saw

✓ bird in same area & followed

pair together - 4' in level - (bush 1 x 3).

on 15th like I saw them &

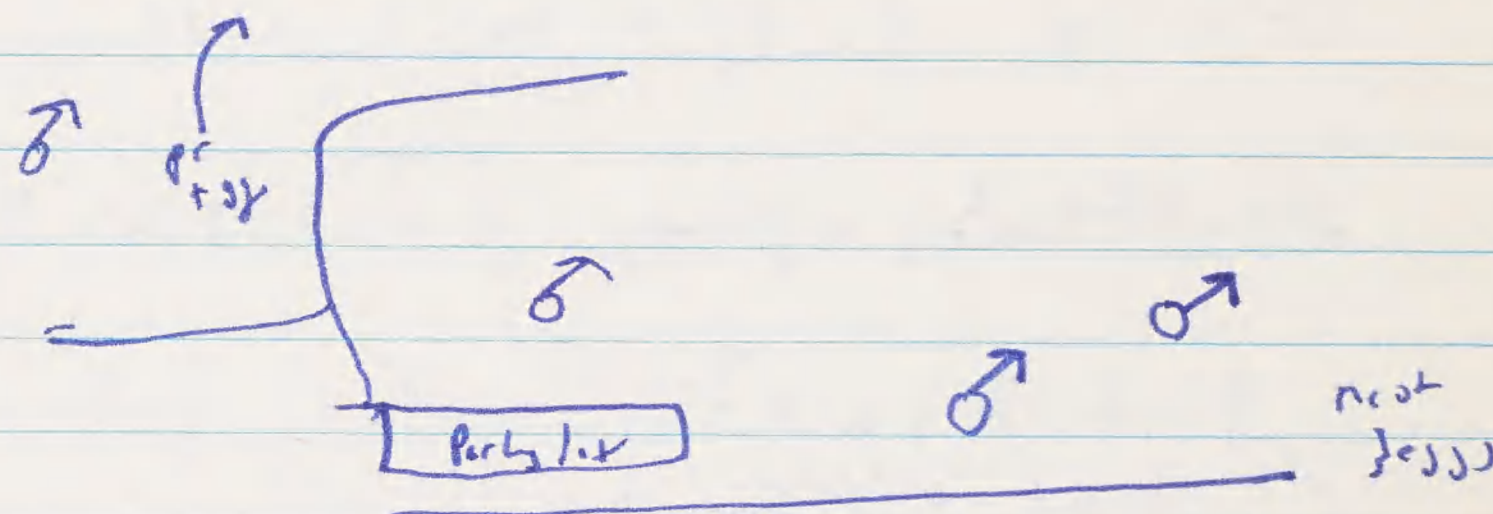
1st fledged baby (short tail - still

short-billed
some head down & baby lips).

it flew well - too well

to follow

B + W warbler nest was empty!



12 June - Hot First totally warm day
I checked corner territory on

road up - may have had chipmunk

at bend saw pair: very noisy

0-6' up quietly - fairly well

some ~~of~~ looking & preening (♂ sang briefly)

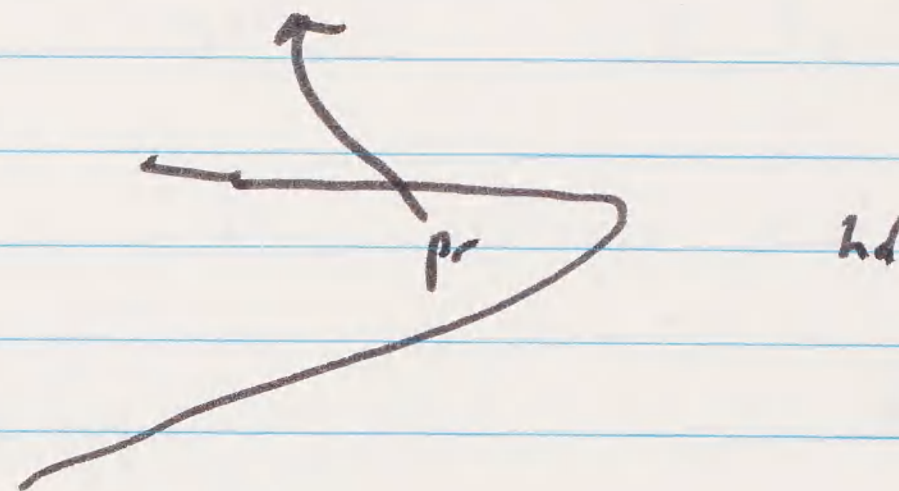
✓ ground tree x 3?
1 hyl understory tree (by lot)
1 hyl understory

1 + gl - honeycreeper
branch gl x 2 (1 puller)

Pin tail gl x 2

may be slope - not birds -

nest was checked - was empty.



check slope territory below where trail -

no hyl. Also no could find

territory on side of mtn.

7 hd + saw 5 on territory

below partly lot for two - one h -

perched

✓ Oak 30' 1 hyl x 4
Maple 20' 1 hyl
Linal 4' 1 hyl x 4 flower probe x 3

No sign of y - 3 hpl

going round in circles u

I followed.

3 song + pretty song
pretty

no note

white tail

no note

13 June

leaved area

1

2

3

4

5

6 - back up 14

6

7

2 song + 1 b, 4 song up. line 14

8

1 song fly 14

9

3 song fly 14

10

3 song puller 14

11

" " 14

12

" " 14

13

" " 14 lost edge

14

3 song puller 14

15

16

17

18

19

20

13 June hot 880-230
7 check kiting below party lot

3 hrs in morning + 1/2 hr in
afternoon. lot of action on

upper slope where I suspected

nest might be - ♂ singing -

they short song + 2 sing ♀

✓ briefly [Oak 20' 1b g (x2)
sit small pillar

saw bird new sound once.

I wandered on slope below

thru trail + Blue trail

ld B # sin ♂ sing

✓ 30' in oak 1b g (x4)
hypocistis feed oak leaf

saw + hd pr + st look

one juvenile wing down slope

down blue trail. ♂ sing

perched around young.

young - w. = first on

stem - perched in level +

fly up into oak. - high

twittering contact note to

parent.

14 June - sunny hot 830 - 430

I check territory below white trail

This morning. ♂ sang +

✓ I see it 25' in O.W. (hang on PL Oak)

then I see presumed ♀ with

green grubs in bill back in Level 3-5'

✓ 16 gl x 4 16 lg x 3 knock + drop to ground 2

I spent until 2:00 kept to

see where nest was + only

1 ♂ a couple more times

At trail I saw broody ♀ fly across. I foraged eagerly

first - in 10 minutes I saw it

feed 114 times, A. I probably

fed more = ~~40~~⁵ times + k + drop

✓ to ground once for a pile.

2 times 11 gl., 2 times lg

x 5 times big + 100 times 16 gl

mostly small (I see only 4 +

pillars go down) I had 5 more

+ saw broody ♀ B.W. warbler

bird-singing

Leaf collection 5 June 5
1st parking area.

Grubs 4mm 1
10mm 4

Spider 1mm 2
4mm 4
5mm 3

Hemipteran nymphs
2mm 1
3mm 2

Beetles 1mm 2
3mm 2

Weevil 6mm 1

Ant 5mm 1

Moth 1mm 1
1mm.

Leaf Collection 1 May 19
Top parking lot

Spiders 1mm 2
3mm 1
5mm 26
7mm 5

Grubs (Aug)
4mm 1
8mm 2 (1 green)
12mm 1

13mm 1

Beetles

1mm 2

2mm 1

4mm 1

5mm 1

8mm 2

Grubs 1mm 82
fly 2mm 2
yellow tick
1mm 2

leaf hoper 6mm 1
spider 1
5x1mm 2

Springtail (11)
3x2mm 2

misc. egg mass

beetle larvae
3x5mm 2

Weevil 6mm 1

May 26 Infection 2

Spiders 13

5mm 5

Beetles

1mm 3

4mm 2

5mm 1

Weevil 7mm 1

Stops?

4mm 4

5mm 2

Gub, 12mm 2

13mm 1

8mm 1

Mite 2mm 2

Ant 3mm 1

1 Hemipt.

15mm 1

17mm 1

5 July 200 - 530

Leaf-crow

1 ^{cherry} ~~Beech~~ - 4mm long 1b

2

2cm el. tree 1b

3

" - 0

4

M. pl. - 0

5

" - 0

6

" - 0

7

" - 0

8

Sweet gum

9

cherry

10

"

11

M. pl.

12

M. pl.

13

M. pl.

14

M. pl.

15

M. pl.

16

Sweet gum

17

Sweet gum

18

cherry

19

M. pl.

20

cherry

21

M. pl.

22

cherry

23

M. pl.

22 chestnut - 0

23 " - 0

24 Maple - 0

25 Maple - 0

26 Maple

27 Maple - 0

28 cherry - 0

29 chestnut - 0

30

12/1500

5mm beetle 1b

1cm ^{honey} ~~beetle~~ 1b

1cm honey 1b

5mm beetle xL 1b folded

2cm green hemipt. 1b

5mm moth 1b

5mm beetle 1b

5mm brown or honey 1b

Level (1-2)

1 - 0

2 0

3 0

4 0 1cm green hump 1b

2cm green hump 1b

5 0

6 0 5mm brown hump 1b

7 0

8 0

9 0

10 0 1cm 1b green hump

11 0 - 2mm spide - 1b
1mm wip 1b

12 0

13 1mm spide 1b

14 5mm hump 1b x 2

15 0

16 4mm h. spide hump 1b

17 1cm green hump 1b

18 1cm sp. 1. cm 1b

19 0

20 4mm h hump 1b

9/1,000

26 June 10-300

I worked on territory below
parking lot. I saw ♂ in
saw-lens by gap + it fed

✓ 4 times on lb 3' up. I checked

slope territory below Horse Trail +

Saw nothing. ~~I also checked~~

♂ churred (6 birds) singing sweet song
later I saw ♀ redbird in understory as it
looking for nest

27 June 8-200

I worked on territory below

parking lot + localized nest to the

✓ actual thicket - I saw bird about 10 min.

in local a poke a small dead leaf

without getting anything. I

found nothing on slope by Horse Trail

Lots of chips + some song by ♂

I also checked slope by
lower picnic area + found nothing

June 28 300-500

Had + saw 1 VFL in the

gap below parking lot - today

I had no singing at all even

when I approached that area.

no foraging. Nothing on

slope territory

29 June

brood of 2 juv. \approx 2 wks old
(from middle of post juvenile molt

(almost full grown tails) -

on white trail near + in Joe. D. D. area

grave.

Parents made forays 1-5 minutes

probably mainly ♀ - 2 LD

♂ singing briefly. brood young small

prey - mostly green pillers.

✓ ♀ foraged on 16.51 (17x mainly) in

lurel - saw 2 dead luteal chicks +

one large at D.L.

babies present & explored rapidly

I saw them both pick it

20+ different branches, 7 dead

leaves - & 3 live level leaf

clusters - they ~~are~~ picked &

grabbed at irregularities on bark.

I saw 1 set of leaves of leaves.

they seldom followed adults

to feed. the family moved

slowly staying in one place

then halting - perhaps in response

to my presence.

29 June live (at car -)

1 50 - 10.1.1

2 50 - 10.1.1

3 50 1.0.1

4 50 1.0.1

5 50 1.0.1

6 50 Maple -

7 50 -

8 50 2m green scrub 1b

9 50 - 2m green scrub 1b

10 50 Birch

11 50 1.0.1

12 50 5m high dot 1b

13 50 24 1.5m green scrub 1b

1.5m high 1b
5m high dot 1b x 2
2m high 1.5m high 1b

5m high 1b

17 ov

18 JO Myl -

16 JO - 1455

17 ov

18 JO Myl

17 JO Myl

20 2 3m spec 1b

21 ? 3 adult + 1 myl

22 C.O.H - 0 Shm green Lony 1b

23 O.H - 0

24 C.O.H

25 C.O.H

26 Myl ov

22 chomr

28 C.O.H

29 JO

30 C.O -

13/1500

Larry

1 50

2 50

3 - 0

4 0

5 0

6 0

7 0

8 0

9 0 } low up. hand 1b

10 0

11 0

12 0

13 0

14 0

15 0

16 0

17 0

18 0

19 0 } low green sub 1b

20 0

21 0

1/2, 110

July 5 continued

I watch WEW family along

Blue + white trail. Pr + 2 yg.

The young are essentially adult in plumage + are distinguishable largely by vocalizations + behavior. They are still fed every 10-15 minutes. They

covered the same area they did last week - staying low in low vegetation.

Juveniles still remained localized + parents foraged out to get food.

Given the dense shrubbery visual contact seems unlikely. The ♀ looked at

one dead adult, but on fog was high

✓ I saw 1 such forager - 7 of which were successful (2 for insectivores -)

7 were at low + 2 at high.

The young attempted flying at dead white lines 5 times - by jolts at low - 3 were OK + 2 low.

I saw 25-30 glows at low + low bottom - some were successful. 2 high glows. Juveniles tumbled

to ground 2x + attempted 1 hoverglow.

I heard singing by ♂
but no singing

At first the group seemed
loosely associated with
chickadees. Later I saw
♀ glow leaf leaf bottom twice
to feed young.

I checked out birds by
clearing ~~area~~ below
poly lot. Bird came into squirrels.

pair was feeding two th babies

in dense thicket (they went

to two shrubs) I only had

warbler begging chips - no (unbirds).

✓ adults picked at dark (11:00)

7 times - all OK - once the bird

hung over to perched leaf.

it began to search of
clearing shrubs 15 times & got
one epiloricid to bring to young.

Young must be quite young.

6 July 1-5 pm

I checked along White + Blue trails + down slope from blue trail for LEW. One mobbed me in area below parking lot - but I saw no foraging.

I found a family group (2-3 ygs) near top of Susiloot (Red trail). Initially an adult joined chickadees mobbing me - in dense sword grass. I followed it to family which was in laurel understory. I followed into gap & then they went into oak canopy.

The young were old & indistinguishable from adults - feeding by parents was infrequent. & all birds fed actively. The association was loose with parents usually in different trees

✓ from young. I saw 2 dead (not pecked) (no success) & 8-10 glaucous -

2 to Oak, 3 to laurel, 1 to grape & 2 to Apple tree? (old Orchard). Adult carried a large beetle to feed.

On backside of Mtn I saw ♂ with green grub - 116 glaucous ~~to~~ cherry. it was probably going to a nest somewhere.

7 July 2-5

Live leaves

1 - 5000 ?

2 - 0

3 5mm black beetle 1b

4mm spider 1b
1mm fly 1b

4 Beetle - 0

5 - 0

6 5000 - 0

7 ? 0

8 5000 5mm brown hump 1b

5mm brown beetle 1b

9 ? 0

10 ? 0

11 C.O. 2mm beetle 1b

12 0

13 0

14 C.O. 2mm hump 1b

15 5000 2mm hump 1b

16 5000 1mm moth 1b

17 ? 2x 5mm beetle 1b

5mm spider 1b

18 1000

19 1000 1.5 cm crinkly 1b

20 0

21 0 Myle

22 Myle - 0

23 Myle 1mm cricket 1b

24 Myle - 6

25 ? 1mm caterpillar 1b

27 5000 - 0

28 10. 2cm green hump 1b

29 0

30 0

1000

12/15000

10

20

5mm hump 1b

30

4

3mm hump 1b

5

6

7

8 2mm hump 1b

9

10 0 5mm up, 1000 1b

5,1000

11

12

13

14

15

16

17 1mm hump 1b

18

19

20

3cm x 2mm green sub 1b

Dr. L. H. Insect biomass 1983

| Sample | My-line | Sp. 1 | Sp. 2 | Sp. 3 |
|--------|---------|-------|-------|-------|
| 1a | .1234 | .014 | .0417 | |
| 1b | .1028 | ? | ? | |
| 1c | .106 | .024 | .026 | 0 |
| 1d | .046 | .007 | .034 | 0 |
| 1e | .057 | .008 | .025 | 0 |

| Sample | My-line | Sp. 1 | Sp. 2 | Sp. 3 |
|--------|---------|-------|-------|-------|
| 2a | .194 | .052 | .057 | - |
| 2b | .153 | .029 | + | .002 |
| 2c | .229 | .034 | 0 | tru. |
| 2d | .2420 | .058 | + | .0031 |
| 2e | .2366 | .012 | | .005 |

| Sample | My-line | Sp. 1 | Sp. 2 | Sp. 3 |
|--------|---------|-------|-------|-------|
| 3a | | | | |
| 3b | | | | |
| 3c | | | | |
| 3d | | | | |
| 3e | | | | |

| Sample | My-line | Sp. 1 | Sp. 2 | Sp. 3 |
|--------|------------------|-------|-------|----------------|
| 1 | My-line - 0 | | | 28 ? 0 |
| 2 | " 4mm p. 1b | | | 29 My-line - 0 |
| 3 | " 0 | | | 30 My-line |
| 4 | Cherry 5mm p. 1b | | | 2mm line |
| 5 | My-line 0 | | | 29mm 1b |
| 6 | " 0 | | | |
| 7 | My-line - 0 | | | |
| 8 | " 0 | | | |
| 9 | " 10, 1b 0 | | | |
| 10 | " 2mm line 1b | | | |
| 11 | Cherry - 0 | | | |
| 12 | Sass. 0 | | | |
| 13 | " 0 2mm line 1b | | | |
| 14 | " 0 1mm line 1b | | | |
| 15 | Cherry 0 | | | |
| 16 | " 0 4mm line 1b | | | |
| 17 | My-line - 0 | | | |
| 18 | My-line 0 | | | |
| 19 | " 0 2mm line 1b | | | |
| 20 | " 0 | | | |
| 21 | My-line - 0 | | | |
| 22 | " 2mm line 1b | | | |
| 23 | Cherry - 0 | | | |
| 24 | " 0 2mm line 1b | | | |
| 25 | Cherry - 0 | | | |
| 26 | " 0 | | | |
| 27 | " 0 | | | |

7/1500

Land

1 0

2 0

3 0

4 0

5 0 Some Redpolls on ground

6 0

7 0

8 0 2 imm + 2 imm seen

9 0

10 0 Some Redpolls on ground

11 0 " " " " "

12 0 " " " " "

13 0

14 0

15 0 3 imm seen

16 0 Some Redpolls on ground

17 0

18 0

19 0

20 0 2 imm seen

21 0

8/1,000 0

7/14/83

Brood-

Per. + Lbg. x 5 C

Lbg. x 2

Did not poke

Seen below old log

From 250-450 I followed the brood below the perching lot.

I found it in brood below

The gap I followed it so it about 70m into a very dense gap.

The birds were a little (2-3 days?)

older than R+M - in heavy post-natal molt. Pl-mix was

rather a lot + headstages were

adult-like. They were relatively

quiet + still compared to older

fledglings - I saw only a little

exploratory behavior. I percent for

it went on long forgo at

at sight of young.

Transcribed notes
15 June 9-900

The egg was 0-20' up in the
✓ 5-10' I saw 25 lb eggs -
2/3 of which were larger than 2-10 eggs

✓ I saw the date, 15 June 1990
egg, which was 5 to 10 inches.

Spent 5 minutes with a 10 lb egg
I saw 12 eggs to 10 lb eggs.

7 10 lb eggs + 3, 10 lb eggs?

or 10 lb eggs - low pillar which
was dropped. One 10 lb egg.

Spent 10 minutes at

log - 30 lb egg, 10 lb egg, 10 lb egg

Spent 10 minutes at 10 lb egg

Spent 10 minutes at 10 lb egg

Spent 10 minutes at 10 lb egg

Spent 10 minutes at 10 lb egg

Spent 10 minutes at 10 lb egg

Spent 10 minutes at 10 lb egg

Spent 10 minutes at 10 lb egg

Spent 10 minutes at 10 lb egg

Transcribed notes

15 June 9-900

I check territory below parking lot.

♂ was singing as usual but I

failed to see ♀. I then check

slope territory below white trail.

♂:♂ interaction - like yesterday

♂ 20' oak branch 10 x 3

switched back to 10 lb like a BHW.

10 lb gl - no ♀.

later I saw ♀ - 10 lb, trail &

✓ 10 lb in 10 lb 3' 10 lb gl x 3 - got one

pillar.

I saw ♀ collecting 'pillars' on lower

territory at 3:00 pm + she 10 lb x 7

✓ in 10 lb. I saw ♀ on a bird
off nest!

I also saw B+W Warbler

territorial boundary dispute

one ♂ gave a chirp

staccato chirp & it followed

twice, slowed a bit

June 17 800-330

I check territory on slope

below white territory. As in

past two mornings, the ♂ was

singing close to neighboring ♂♂ -

but there appear to be 2

close neighbors.

Songs are interspersed with

the (chirp-like) song when

♂♂ are close. I saw ♂

♂♂ 1 & 4 in Azalea &

peel leaf forage. I heard

chipping of adults from

territory closer to

parking lot on the

same slope - but I didn't

see the birds (♂ started

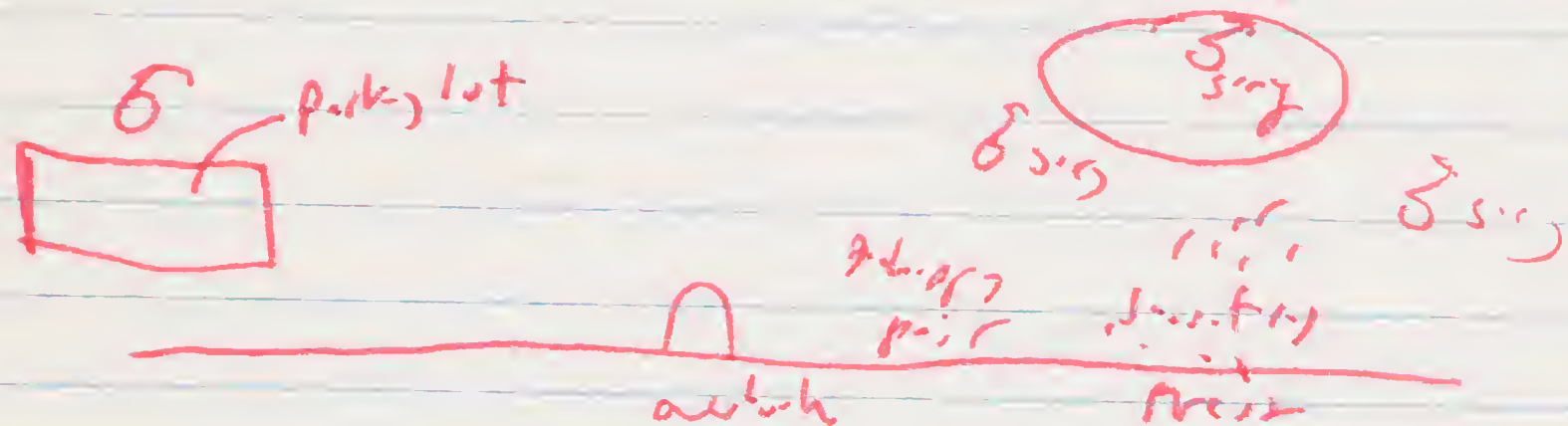
singing).

I checked territory below
parking lot + δ was singing

a) well. but I didn't see ϕ .

I check slope below horse trail

but I didn't see anything



June 18 830-430

I checked territory below
white trail (3 hrs) δ sang

and dropped into laurel
1651 x 7 4' up
16 1651 x 7
got one pillar

neighbor δ sang + I had
copy the song once.

I found a pair at Rocky

✓ Overlook on white trail ϕ 1651 x 2 in

laurel 6' + fed a very young

chickling. δ sang briefly.

ϕ had a beetle or spider to

give baby. Baby ^{perched} ~~perched~~

still on laurel branch

I then spent 4 hrs on
territory below parking lot

I saw ♀ off nest - fast feeding.

1 b gl in laurel x 10

500 extra 1 b gl x 6

✓ curled leaf pick x 2

watched for it minutes ♂ song

short song - but lost it

& didn't see it again.

22 June 1230-1730

7 check territory below

parking lot for several hrs -

the birds were observed together

going up slope + I also saw

them near the parking lot -

one my hawk had caterpillars in

bill. I found nest

with egg but its probably taken,

23 June 800-400

I checked territory below

parking lot. Saw birds, again up

slope 2-3 times ♂ sang

short song a canyon warbler

✓ times. ♀ was B' in Azalea.

I saw 7 (bgs) in Azalea

(1 pillar) check in dead

leaf cluster (no leaves) looked

on ground once. I saw a

pair of ? on slope below here

tr. 1 ♂ had 'pillin' ya bill

of got off nest - I saw was

20-30' in Oak +

checked 7 dead leaf clusters

✓ in a row rapidly.

I later saw ♀ ^{later} in same area

✓ I also saw ♂ feed 1b, 1 & 4.

June 24 930-1230. Veg lot

didn't see birds on horse

tr. 1 slope despite 3 hrs

search. I briefly saw ♂

on slope below parking lot.

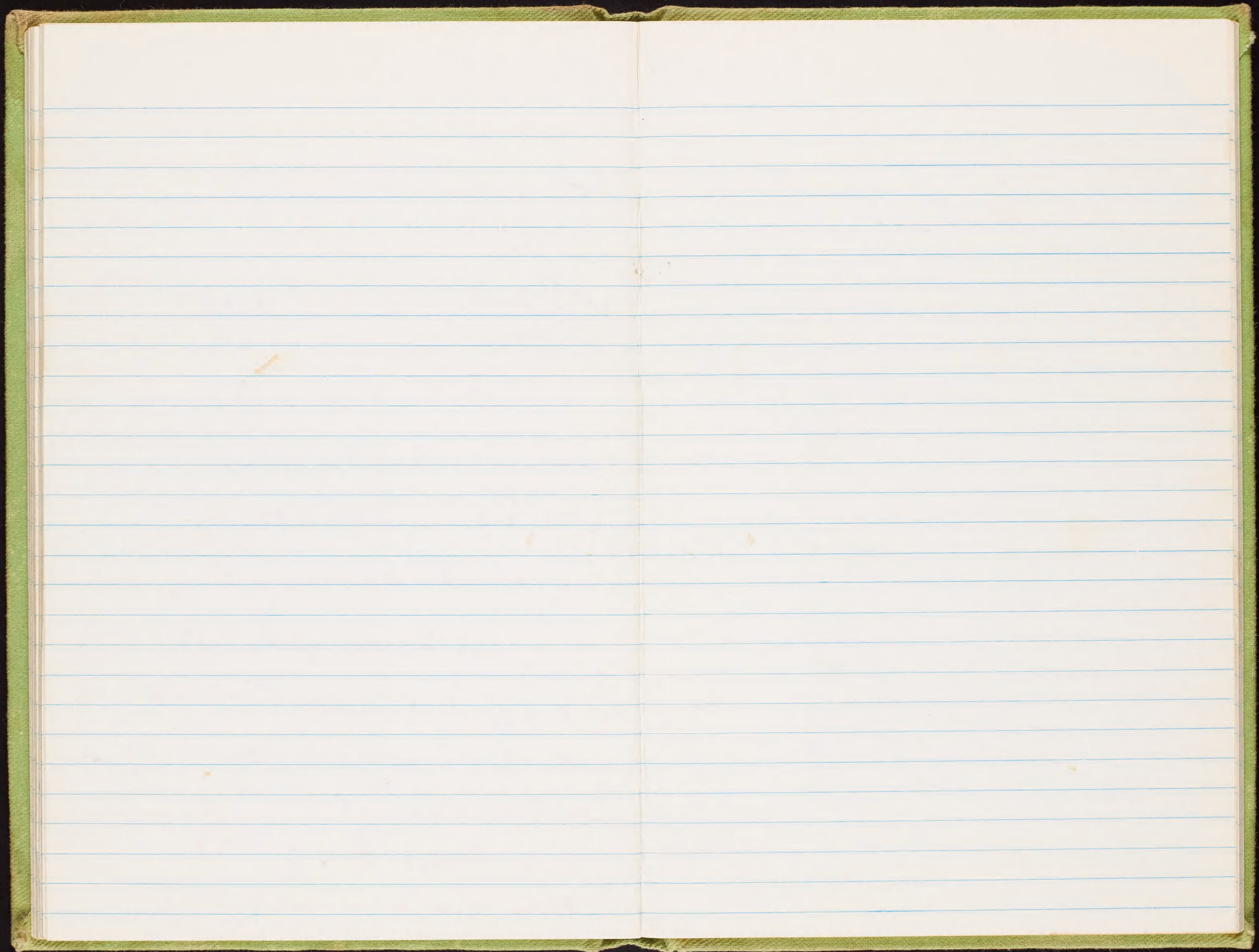
[I saw B & W Warbler ♂ 1b, 1 & 4

& check a dead leaf, also

some leaf litter on Rucko]

Got Merly + Roscoe today

from nest below white tr. 1



Decid leaf size

Sample 1 - non deviated from mean

| | | | | |
|------|------|------|------|------|
| 3(1) | 2 | 5 | 2 | 4(1) |
| 5(3) | 7 | 5 | 2 | 4(1) |
| 6(3) | | 6 | | |
| 4 | 4 | 5 | 5 | 3 |
| 4 | 5/2 | 3 | 4 | 2 |
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| + | 3 | 3 | 3 | 3 |
| 6 | | 5 | 3(1) | 3 |
| 8 | 8 | 5 | 2 | 3 |
| 2 | 2 | 5 | 2 | 3 |
| 2 | 5(1) | 3(2) | 2 | 3 |
| 2 | 4 | 3(2) | 2 | 3 |
| 3 | 3 | 3 | 2 | |
| 6 | 4 | 3 | 2 | |
| 4 | 3 | 7 | 2(2) | |
| | + | | 2(1) | |
| 3 | 2 | 2 | 2 | |
| + | 2 | 2 | 2 | |
| 3 | 2 | 3 | 3 | |
| 2 | 2 | 3 | 3 | |
| 4 | 5 | 3 | 3 | |
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| 2 | 4(2) | 4 | 3 | |
| | 3(2) | | | |

$$S \subseteq m$$

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[illegible]

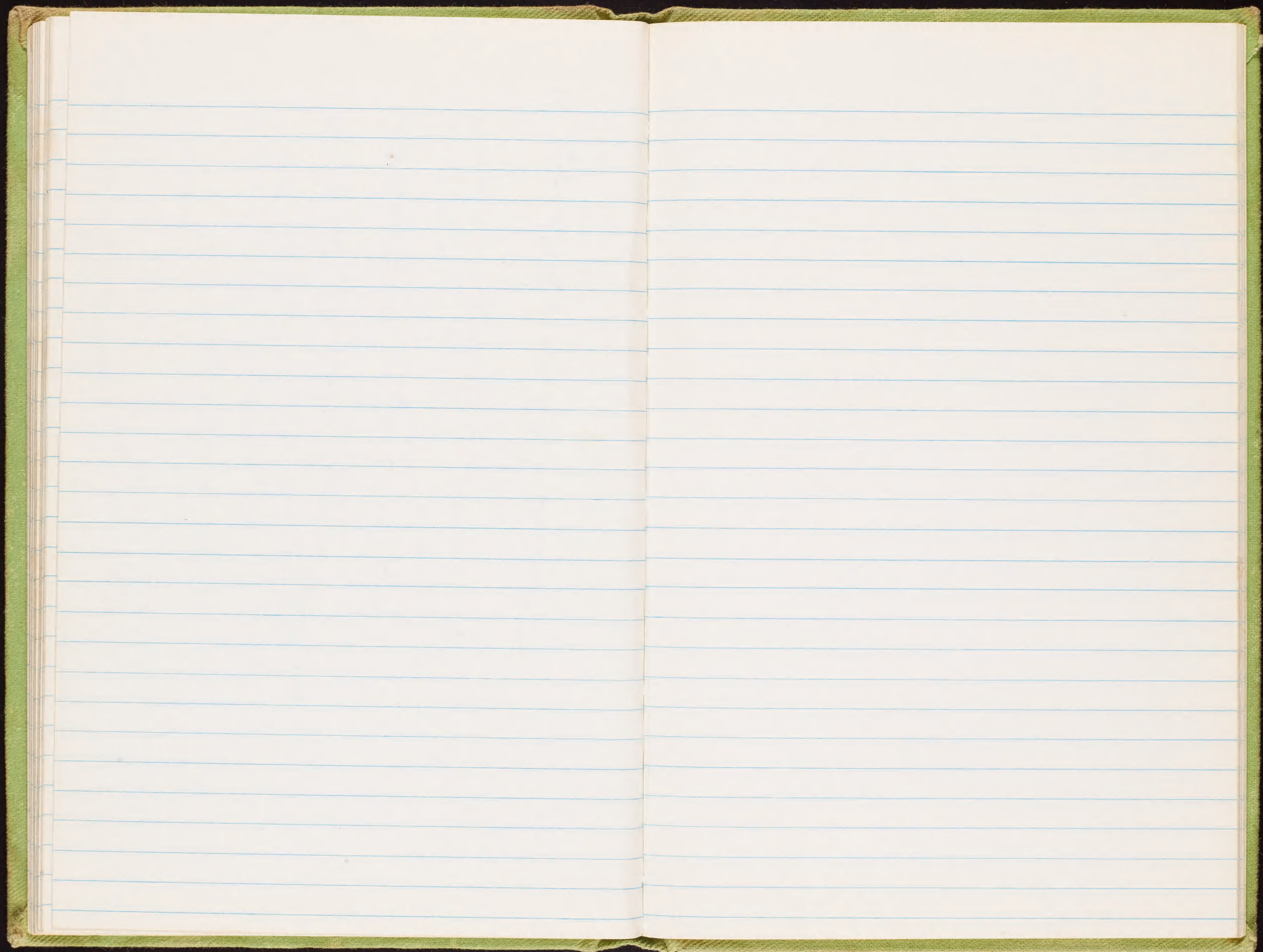
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|----------|--------|---------|------------------------|----|
| May-June | 2 | 10 | Total | 12 |
| | 2 | 4 | | 6 |
| | 3 | 4 | | 7 |
| | 6 | 8 | | 14 |
| July | laurel | regular | $\bar{x} = 10 \approx$ | |
| | 9 | 12 | | 21 |
| | 5 | 13 | | 18 |
| | 1 | 12 | | 13 |
| | 8 | 7 | $\bar{x} = 17$ | 15 |

$\bar{x} = 16.5$

>

7/1/00

